

CLOSURE REQUEST

KAISER-FRANCIS OIL COMPANY

Created for submission to New Mexico Oil Conservation Division on 07/14/2022

ASHLEY GIOVENGO Project Environmental Scientist

ENERGIZING AMERICA

Chad Hensley, Bradford Billings, Robert Hamlet, Jennifer Nobui, and/or Nelson Velez

State of New Mexico
Energy, Minerals, and Natural Resources
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: CLOSURE REQUEST

COMPANY Kaiser-Francis Oil Company

LOCATION Red Hills Facility Pad 5

API 30-025-47207

PLSS Unit D Sec 31 T25S R33E

GPS 32.093678, -103.61828

INCIDENT ID nAPP2212769524

BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Request on behalf of Kaiser-Francis Oil Company, hereafter referred to as KFOC, regarding the release at the Red Hills Facility Pad 5 (Site) located in Unit D, Section 31, Township 25 South and Range 33 East in Lea County, New Mexico. The GPS coordinates are as follows: North 32.093678 and West -103.61828. Surface owner of the Site is Bureau of Land Management (BLM). The Site falls within New Mexico Oil Conservation Division (NMOCD), District 1 Hobbs.

On May 7, 2022, human error resulted in the release of 70 barrels (bbls) of produced water onto the caliche pad and onto two separate pipeline rights-of-way's (ROW). Bolts were loosened on a flange located outside the separator containment and were not re-tightened once the maintenance activity had been completed. KFOC immediately isolated the source of the leak and approximately 21 bbls of produced water was recovered. The spill area is located on the North and East sides of the caliche pad as shown in Figure 1.

Wescom personnel arrived onsite on May 17, 2022, to begin excavation of the off-pad spill area and to collect confirmation samples. A variance request was submitted to the NMOCD and to the BLM on May 18, 2022, to establish the size of the confirmation sampling areas. On May 19, 2022, Mike Bratcher of the NMOCD approved the variance request for confirmation sampling area's not to exceed every 400 square feet (sq. ft.); Crisha A. Morgan of the BLM also approved the sampling variance for every 400 sq. ft. (see attachment F).

SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is greater than 280 feet below ground surface (bgs) and is 1.26 miles Southeast of the Site. No playas or lakes are located within a one-mile radius of this Site (Attachment C).

KARST POTENTIAL

According to data from the Bureau of Land Management, this Site is located within medium karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. This Site is in the medium karst potential zone and therefore, the applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX) and 100 ppm Total Petroleum Hydrocarbons (TPH). A chloride concentration at or below 600 mg/kg (ppm) in the soil is also required.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Red Hills	Red Hills Facility Pad 5 — 32.093491, -103.616627					
Depth to Groundwater			osure Criteria	(unites in mg	/kg)	
		Chloride * numberical				
		limit or background,				
		whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
No water data within 0.5 mile radius		600	100		50	10
less than 50 ft bgs		600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs	280 ft	20000	2500	1000	50	10
Surface Water	Yes or No		If ye	s, then		
< 300 feet from continuously flowing watercourse or other	No					
significant watercourse?	-					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water						
well used by less than 5 households for domestic or stock	No					
watering purposes?						
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school,	No					
hospital, institution or church?	140					
Within incorporated municipal boundaries or within a	No					
defined municipal fresh water well field?	110					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

REMEDIATION ACTIVITES

Beginning on May 17, 2022, Wescom personnel arrived onsite to oversee the removal of impacted soil and to conduct confirmation sampling activities. A backhoe was used to remove approximately 3,800 cubic yards of contaminated soil from the spill area. A background sample, BG01, was collected 50 feet to the West of the Northern pipeline ROW, as shown in Figure 1. Impacted material from the spill area was hauled to an approved disposal facility.

Wescom personnel collected a total of 79 composite confirmation samples over the 23-day sampling and excavation period. All the confirmation samples were below the applicable RRALs for the Site as shown in Table 1. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. Confirmation sample locations are presented in Figure 2 and laboratory analytical reports are included in Attachment E.

The required 48-hour confirmation sampling notifications were sent on May 11, 2022, May 23, 2022, May 31, 2022, June 06, 2022, and on June 20, 2022, to Chad Hensley, Bradford Billings, Mike Bratcher, Robert Hamlet, Jennifer Nobui, and Nelson Velez, with the NMOCD in Santa Fe, New Mexico and are included in Attachment G.

REQUEST FOR CLOSURE

On behalf of KFOC, Wescom hereby requests closure for the release associated with incident number nAPP2212769524 based on the logic below.

- The excavation of the on-pad and off-pad spill areas has been completed in accordance with the medium cave/karst guidelines set forth by the BLM and in accordance with the strictest criteria on Table 1 NMAC.
- All confirmation areas and samples are below applicable RRALs for the Site.
- Impacted material was removed and properly disposed of at an approved facility.

If you have any questions or comments, please do not hesitate to call Mrs. Ashley Giovengo at (505) 382-1211.

Sincerely,

Wescom, Inc.

Ashley Giovengo

Project Environmental Scientist



cc: Aaron Daniels, Kaiser-Francis Oil Company

Hutton Andrew, Kaiser-Francis Oil Company

Chad Hensley, NMOCD

Bradford Billings, NMOCD

Robert Hamlet, NMOCD

Jennifer Nobui, NMOCD

Nelson Velez, NMOCD

REFERENCE MATERIALS

FIGURES

FIGURE 1. Spill Location

FIGURE 2. Confirmation Sampling

TABLES

TABLE 1. Laboratory Analysis Results: Confirmation Samples

ATTACHMENTS

ATTACHMENT A. C-141

ATTACHMENT B. Site Photos

ATTACHMENT C. Closure Criteria Supporting Documents

ATTACHMENT D. Karst Map

ATTACHMENT E. Envirotech Inc. Laboratory Analysis Reports **ATTACHMENT F.** Confirmation Sampling Variance Request

ATTACHMENT G. 48-hour Confirmation Sampling Notification Emails

FIGURES

Received by OCD: 7/22/2022 10:01:38 AM



FIGURE 1. SPILL LOCATION

Red Hills Facility Pad 5 Incident ID: nAPP2212769524 API: 30-025-47207 GPS Coordinates: 32.093678, -103.61828 Lea County, New Mexico Kaiser-Francis Oil Company

LEGEND

—— Separator Containment

Spill Area



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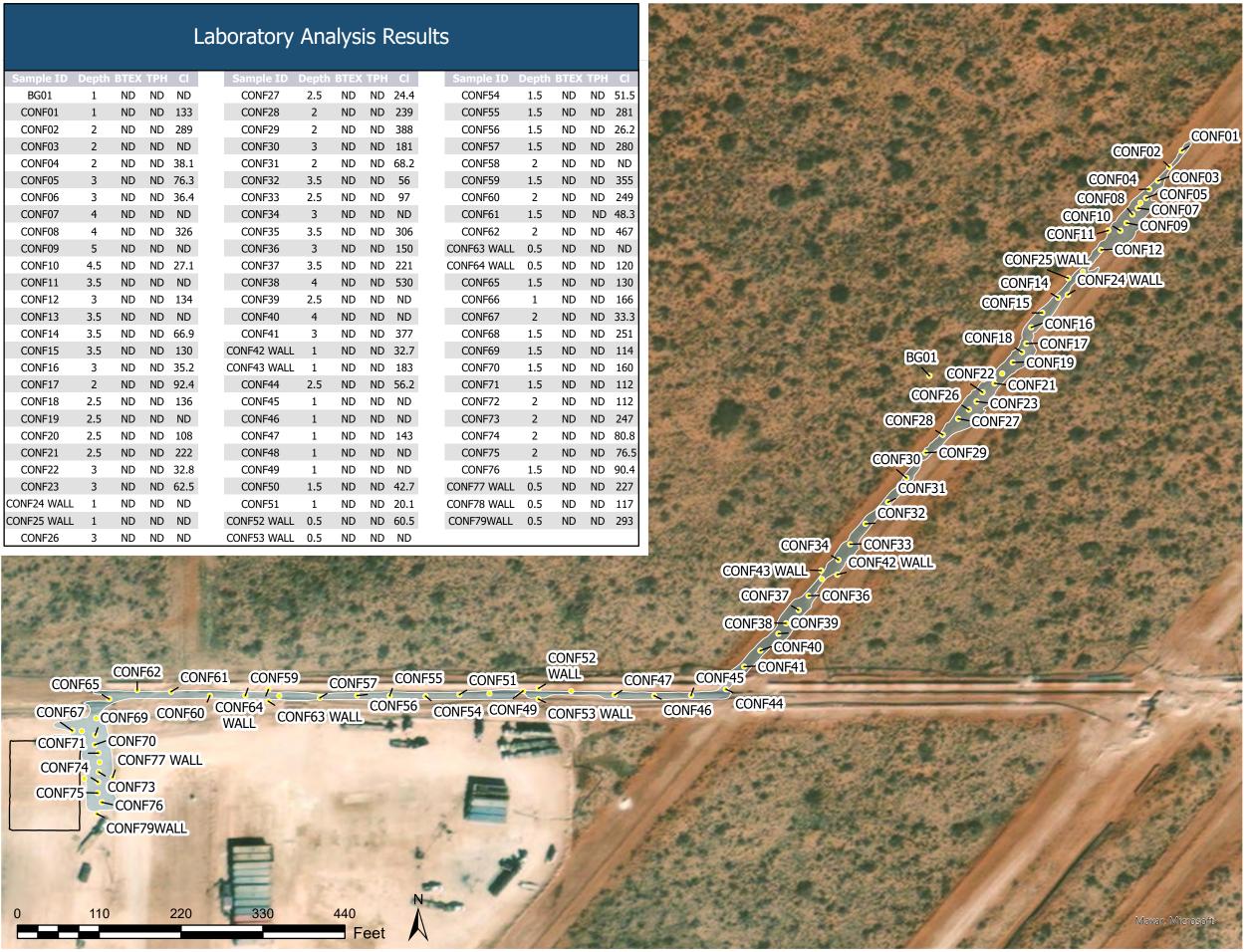


FIGURE 2. CONFIRMATION SAMPLING

Red Hills Facility Pad 5 Incident ID: nAPP2212769524 API: 30-015-43603 GPS Coordinates: 32.093678, -103.61828 Lea County, New Mexico Kaiser-Francis Oil Company

LEGEND

- Confirmation Sample Locations
- Separator Containment
- Spill Area



TABLES

Red Hills	Red Hills Facility Pad 5 05.07.2022 nAPP2212769524					
	Kaiser-F	rancis Oil	Compa	ny 07.	11.2022	
Table 1. I	Table 1. Laboratory Analysis Results: Confirmation Samples					
Samp	le Descripti	on	Petrole	eum Hyd	rocarbons	Inorganic
			Vola	tile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clos	ure Criteria	1	10	50	100	600
BG01	0	5/24/2022	ND	ND	ND	ND
BG01	1	5/24/2022	ND	ND	ND	ND
CONF01	1	5/24/2022	ND	ND	ND	133
CONF02	2	5/24/2022	ND	ND	ND	289
CONF03	2	5/24/2022	ND	ND	ND	ND
CONF04	2	5/24/2022	ND	ND	ND	38.1
CONF05	3	5/24/2022	ND	ND	ND	76.3
CONF06	3	5/24/2022	ND	ND	ND	36.4
CONF07	4	5/24/2022	ND	ND	ND	ND
CONF08	4	5/24/2022	ND	ND	ND	326
CONF09	5	5/24/2022	ND	ND	ND	ND
CONF10	4.5	5/24/2022	ND	ND	ND	27.1
CONF11	3.5	5/24/2022	ND	ND	ND	ND
CONF12	3	5/24/2022	ND	ND	ND	134
CONF13	3.5	5/24/2022	ND	ND	ND	ND
CONF14	3.5	5/24/2022	ND	ND	ND	66.9
CONF15	3.5	5/24/2022	ND	ND	ND	130
CONF16	3	5/24/2022	ND	ND	ND	35.2
CONF17	2	5/24/2022	ND	ND	ND	92.4
CONF18	2.5	5/25/2022	ND	ND	ND	136
CONF19	2.5	5/25/2022	ND	ND	ND	ND
CONF20	2.5	5/25/2022	ND	ND	ND	108
CONF21	2.5	5/25/2022	ND	ND	ND	222
ABBREVIATIO	VS					
BTEX — Benzene, ⁻	Toluene, Ethyle	ne, Xylene		GRO — Ga	soline Range Orga	anics
DRO — Diesel Ran	ge Organics			ND — Non-	-detect	
ft. — Feet mg/kg — Milligrams per Kilogram				gram		
TPH — Total Petro	leum Hydrocarl	bons				
Notes						

Released to Imaging: 10/11/2022 4:10:48 PM

Bold Red - Results are above closure criteria

Gray Highlight - Background Samples

Red Hills	s Facility	Pad 5 0	5.07.20	22 n	APP22127	69524
	Kaiser-F	rancis Oil	Compa	ny 07.	11.2022	
Table 1. I	Laborator	y Analysi	s Result	s: Confi	rmation Sa	mples
Samp	le Descripti	on	Petrole	eum Hyd	rocarbons	Inorganic
			Vola	tile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clos	ure Criteria		10	50	100	600
CONF22	3	5/25/2022	ND	ND	ND	32.8
CONF23	3	5/25/2022	ND	ND	ND	62.5
CONF24 Wall	1	5/25/2022	ND	ND	ND	ND
CONF25 Wall	1	5/25/2022	ND	ND	ND	ND
CONF26	3	6/1/2022	ND	ND	ND	ND
CONF27	2.5	6/1/2022	ND	ND	ND	24.4
CONF28	2	6/1/2022	ND	ND	ND	239
CONF29	2	6/1/2022	ND	ND	ND	388
CONF30	3	6/1/2022	ND	ND	ND	181
CONF31	2	6/1/2022	ND	ND	ND	68.2
CONF32	3.5	6/2/2022	ND	ND	ND	56
CONF33	2.5	6/2/2022	ND	ND	ND	97
CONF34	3	6/2/2022	ND	ND	ND	ND
CONF35	3.5	6/3/2022	ND	ND	ND	306
CONF36	3	6/3/2022	ND	ND	ND	150
CONF37	3.5	6/3/2022	ND	ND	ND	221
CONF38	4	6/3/2022	ND	ND	ND	530
CONF39	2.5	6/6/2022	ND	ND	ND	ND
CONF40	4	6/6/2022	ND	ND	ND	ND
CONF41	3	6/6/2022	ND	ND	ND	377
CONF42 Wall	1	6/6/2022	ND	ND	ND	32.7
CONF43 Wall	1	6/6/2022	ND	ND	ND	183
ABBREVIATIO	VS					
BTEX — Benzene,	_	ne, Xylene		GRO — Ga	soline Range Orga	anics
DRO — Diesel Ran	ge Organics			ND — Non-	-detect	
ft. — Feet				mg/kg — N	lilligrams per Kilo	gram
TPH — Total Petroleum Hydrocarbons						

Notes

Bold Red - Results are above closure criteria

Gray Highlight - Background Samples

Red Hill	s Facilit	y Pad 5	05.07.2	022 n <i>i</i>	APP22127	69524
	Kaiser-F	rancis Oil	Compa	ny 07.	11.2022	
Table 1. I	_aborator	y Analysi	s Result	s: Confi	rmation Sa	mples
Sampl	Sample Description			eum Hyd	rocarbons	Inorganic
			Vola	tile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clos	ure Criteria	1	10	50	100	600
CONF44	2.5	6/10/2022	ND	ND	ND	56.2
CONF45	1	6/10/2022	ND	ND	ND	ND
CONF46	1	6/10/2022	ND	ND	ND	ND
CONF47	1	6/10/2022	ND	ND	ND	143
CONF48	1	6/10/2022	ND	ND	ND	ND
CONF49	1	6/10/2022	ND	ND	ND	ND
CONF50	1.5	6/10/2022	ND	ND	ND	42.7
CONF51	1	6/10/2022	ND	ND	ND	20.1
CONF52 Wall	0.5	6/10/2022	ND	ND	ND	60.5
CONF53 Wall	0.5	6/10/2022	ND	ND	ND	ND
CONF54	1.5	6/14/2022	ND	ND	ND	51.5
CONF55	1.5	6/14/2022	ND	ND	ND	281
CONF56	1.5	6/14/2022	ND	ND	ND	26.2
CONF57	1.5	6/14/2022	ND	ND	ND	280
CONF58	2	6/16/2022	ND	ND	ND	ND
CONF59	1.5	6/16/2022	ND	ND	ND	355
CONF60	2	6/16/2022	ND	ND	ND	249
CONF61	1.5	6/16/2022	ND	ND	ND	48.3
CONF62	2	6/17/2022	ND	ND	ND	467
CONF63 Wall	0.5	6/17/2022	ND	ND	ND	ND
CONF64 Wall	0.5	6/17/2022	ND	ND	ND	120
ABBREVIATIO						
BTEX — Benzene, Toluene, Ethylene, Xylene GRO — Gasoline Range Organics						
DRO — Diesel Range Organics ND — Non-detect						
ft. — Feet mg/kg — Milligrams per Kilogram						
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results						
Gray Highlight - Ba	ckground Sam	oles				

Red Hills Facility Pad 5 05.07.2022 nAPP2212769524						
	Kaiser-F	rancis Oil	Compa	ny 07.	11.2022	
Table 1. I	Laborator	y Analysi	s Result	s: Confi	rmation Sa	mples
Samp	le Descripti	on	Petrol	eum Hyd	rocarbons	Inorganic
			Vola	tile	Extractable	
				BTEX		
			Benzene	(total)	TPH	Chloride
Sample ID	Depth (ft.)	Date	(mk/kg)	(mk/kg)	(mk/kg)	(mk/kg)
Clos	ure Criteria	1	10	50	100	600
CONF65	1.5	6/21/2022	ND	ND	ND	130
CONF66	1	6/21/2022	ND	ND	ND	166
CONF67	2	6/21/2022	ND	ND	ND	33.3
CONF68	1.5	6/21/2022	ND	ND	ND	251
CONF69	1.5	6/21/2022	ND	ND	ND	114
CONF70	1.5	6/22/2022	ND	ND	ND	160
CONF71	1.5	6/22/2022	ND	ND	ND	112
CONF72	2	6/22/2022	ND	ND	ND	112
CONF73	2	6/22/2022	ND	ND	ND	247
CON74	2	6/22/2022	ND	ND	ND	80.8
CONF75	2	6/21/2022	ND	ND	ND	76.5
CONF76	1.5	6/21/2022	ND	ND	ND	90.4
CONF77 Wall	0.5	6/21/2022	ND	ND	ND	227
CONF78 Wall	0.5	6/21/2022	ND	ND	ND	117
CONF79 Wall	0.5	6/21/2022	ND	ND	ND	293
ABBREVIATIO						
BTEX — Benzene, ⁻	Toluene, Ethyle	ne, Xylene		GRO — Gas	soline Range Orga	anics
DRO — Diesel Range Organics ND — Non-detect						
ft. — Feet mg/kg — Milligrams per Kilogram				gram		
TPH — Total Petro	TPH — Total Petroleum Hydrocarbons					
Notes						
Bold Red - Results	are above clos	ure criteria				
Gray Highlight - Ba	ckground Sam	ples				

ATTACHMENT A

Signed C-141

District I.
1625 N. French Dr., Hobbs, NM 88240
District II.
811 S. First St., Artesia, NM 88210
District III.
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2212769524
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Kaiser-Francis Oil Company	OGRID 12361			
Contact Name: Hutton Andrew	Contact Telephone: 918-491-4615			
Contact email: huttona@kfoc.net	Incident # (assigned by OCD) nAPP2212769524			
Contact mailing address: 6733 S. Yale, Tulsa, OK 74136				
Location	of Release Source			
Latitude 32.093678 Longitude -103.61828 (NA▶ 83 in decimal degrees to 5 decimal places)				
Site Name: Red Hills Facility Pad 5	Site Type: Well Pad			
Date Release Discovered: 05/07/2022	API# (if applicable) 30-025-47207			

Unit Letter	Section	Township	Range	County	
D	31	25S	33E	Lea	

Surface Owner: \square State \boxtimes Federal \square Tribal \square Private

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specifi	c justification for the volumes provided below)		
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)		
Produced Water	Volume Released (bbls) 70 bbls	Volume Recovered (bbls) 21 bbls		
	Is the concentration of dissolved chloride in the produced water >10,000 mg/1?	☐ Yes ☒ No		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)		
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		
Cause of Release	######################################	192 2 2 3 4 1 2 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Flange wasn't tightened back up after bolts were loosened.				
Spill volume calculation was done using the Spill Volume Calculator mobile application in conjunction with water tank volume data.				

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Incident ID	nAPP2212769524
District RP	3 3.30
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	The produced water spill was > 25 bbls
☐ Yes ☐ No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, via online NOR to the	he NMOCD on 5/7/22
res, via omine reore to t	HE THYLOCO OH STITES
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rel	ease has been stopped.
The impacted area ha	as been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and r	recoverable materials have been removed and managed appropriately.
If all the actions describe	ed above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NN	MAC the responsible party may commence remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
within a lined containme	ant area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	ormation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and e required to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public health or the environ	ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name: Mittpn	ndrew Title: AHS Representative
Signature:	Date: 05/19/22
Signature.	Date: 11 (1)
email: huttona@kfoc.net	Telephone: 918-491-4615
OCD Only	
Received by:	Date:

	Page 17 of 24	12
Incident ID	nAPP2212769524	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>280 (</u> ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?				
Are the lateral extents of the release within 300 feet of a wetland?				
Are the lateral extents of the release overlying a subsurface mine?				
Are the lateral extents of the release overlying an unstable area such as karst geology?				
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody 				
Zaconatory data including chain of custody				

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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State of New Mexico Oil Conservation Division

Incident ID	nAPP2212769524
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger

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State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID	nAPP2212769524
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Photographs of the remediated site prior to backfill or phot must be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office	
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities		
and regulations all operators are required to report and/or file certary endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the Printed Name/Hutton Andrew	plete to the best of my knowledge and understand that pursuant to OCD rules tain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for ulations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in a OCD when reclamation and re-vegetation are complete. Title: EHS Representative	
Signature:	Date: 05/06/2022	
email: <u>huttona@kfoc.net</u>	Telephone: <u>918-491-4615</u>	
OCD Only		
Received by:	Date:	
	rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible nd/or regulations.	
Closure Approved by:	Date: 10/11/2022	
Closure Approved by:	Title: Environmental Specialist A	

ATTACHMENT B

Site Photos



Spill Area - On Pad



Spill Area - Edge of Pad



Spill Area - East Right of Way (ROW)



Spill Area - East ROW to North ROW



Spill Area - North ROW



Spill Area - North ROW



Excavated Area - North ROW



Excavated Area - North ROW



Hydrovac to Locate Pipelines



Excavated Area - North ROW



Excavated Area - North ROW



Excavated Area - North ROW

Page 7 of 16



Excavated Area - North ROW



Excavated Area - North ROW



Excavated Area - North ROW



Excavated Area - North ROW



Hydrovac to Locate Pipelines on East ROW



Excavated Area - East and North ROW Intersection



Excavated Area - East ROW



Excavated Area - East ROW



Excavated Area - East ROW



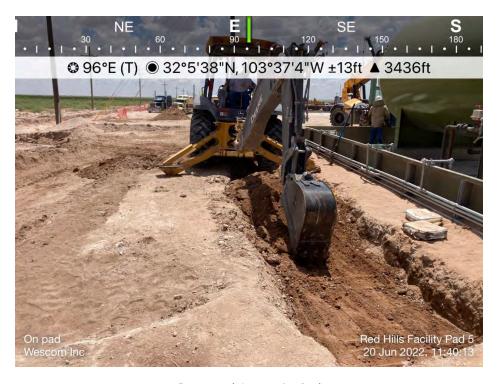
Excavated Area - East ROW



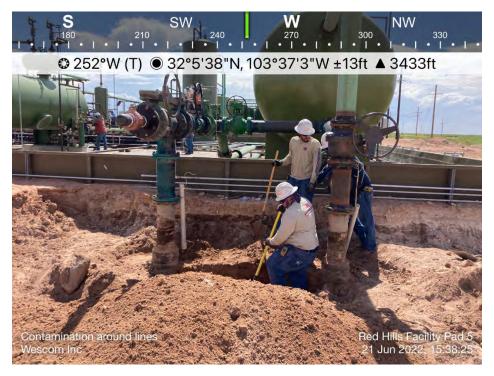
Excavated Area - Edge of Pad



Excavated Area - On Pad



Excavated Area - On Pad



Hand Digging Around Pipelines



Excavated Area - On Pad



Hydrovac Around Pipelines



Excavated Area - On Pad



Excavated Area - On Pad

ATTACHMENT C

Closure Criteria Supporting Documents

New Mexico Office of the State Engineer



(A CLW#### in the

Wells with Well Log Information

POD suffix indicates the POD has been replaced & no longer serves a water right	been rep O=orpha C=the fi closed)	aned,	(quart	ters are 1=1				,	(NAD83	UTM in meters)			(in fe	et)	
POD Number	Code	POD Subbasin	County	Source	q q q 6416 4	Sec	Tws	Rng	X	Y	Distance Start Date	Finish Date	Log File Date		Depth Water Driller	License Number
<u>C 04537 POD1</u>		С	LE	Shallow	4 4 4	31	25S	33E	631847	3550243	1909 06/11/2021	06/12/2021	06/21/2021	500	280 WALLACE, BRYCE J.LEE.NER	1706
<u>C 04485 POD1</u>		CUB	LE		4 1 1	12	26S	32E	629039	3548125	3818 10/05/2020	10/06/2020	11/19/2020	55	HAMMER, RODNEY S.WARDENER	1186
<u>C 04547 POD1</u>		CUB	LE	Shallow	2 4 4	07	26S	33E	631686	3547262	4521 07/15/2021	07/15/2021	08/02/2021	112	ATKINS, JACKIE D.UELENER	1249
<u>C 04549 POD1</u>		CUB	LE		1 1 1	11	26S	32E	627111	3548316	4771 07/14/2021	07/14/2021	08/02/2021	0	0 ATKINS, JACKIE D.UELENER	1249

Record Count: 4

UTMNAD83 Radius Search (in meters):

(R=POD has

Easting (X): 630539.78 **Northing (Y):** 3551635.92 **Radius:** 5000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/23/22 2:24 PM WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

20E6C C 04

C 04537 POD1

4 4 4 31 25S 33E

631847 3550243

Driller License: 1706 Driller Company: ELITE DRILLERS CORPORATION

Driller Name: WALLACE, BRYCE J.LEE.NER

Drill Start Date: 06/11/2021

Drill Finish Date:

PCW Rcv Date:

06/12/2021 Plug Date:

Source: Shallow

Log File Date: 06/21/2021 Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size: 4.00 Depth Well:

500 feet

Depth Water: 280 feet

Water Bearing Stratifications:

Top Bottom Description

340 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

220

300 500





National Wetlands Inventory

Red Hills Facility Pad 5 - Riverine 4,041 Ft



February 23, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake

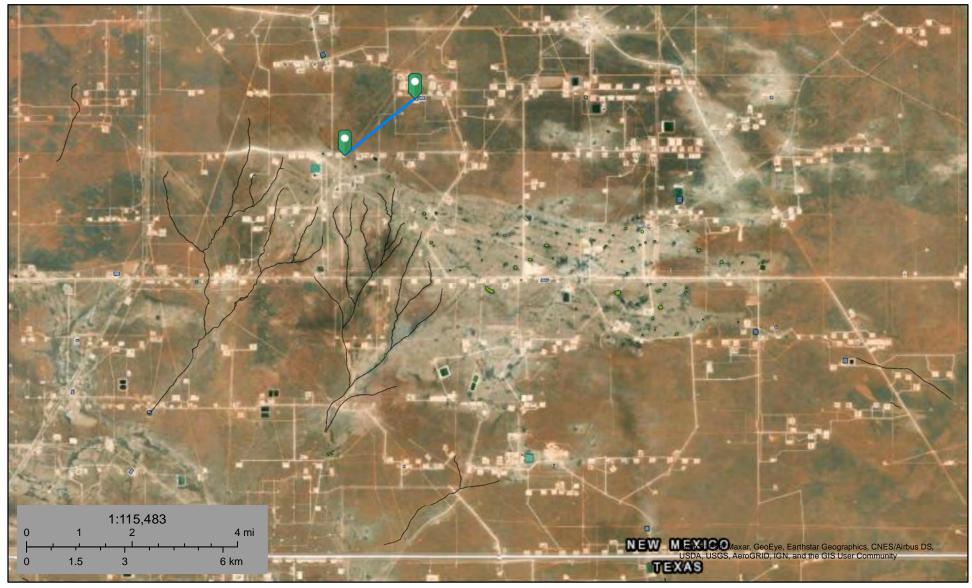
Freshwater Forested/Shrub Wetland Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Red Hills Facility Pad 5 - FW Pond 7,623 Ft



February 23, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

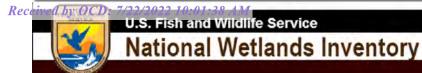
Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Red Hills Facility Pad 5 - Wetland 1,331 Ft



February 23, 2022

Wetlands

Estuarine and Marine Deepwater

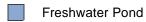
Estuarine and Marine Wetland

Freshwater Emergent Wetland

Lake

Freshwater Forested/Shrub Wetland

Other

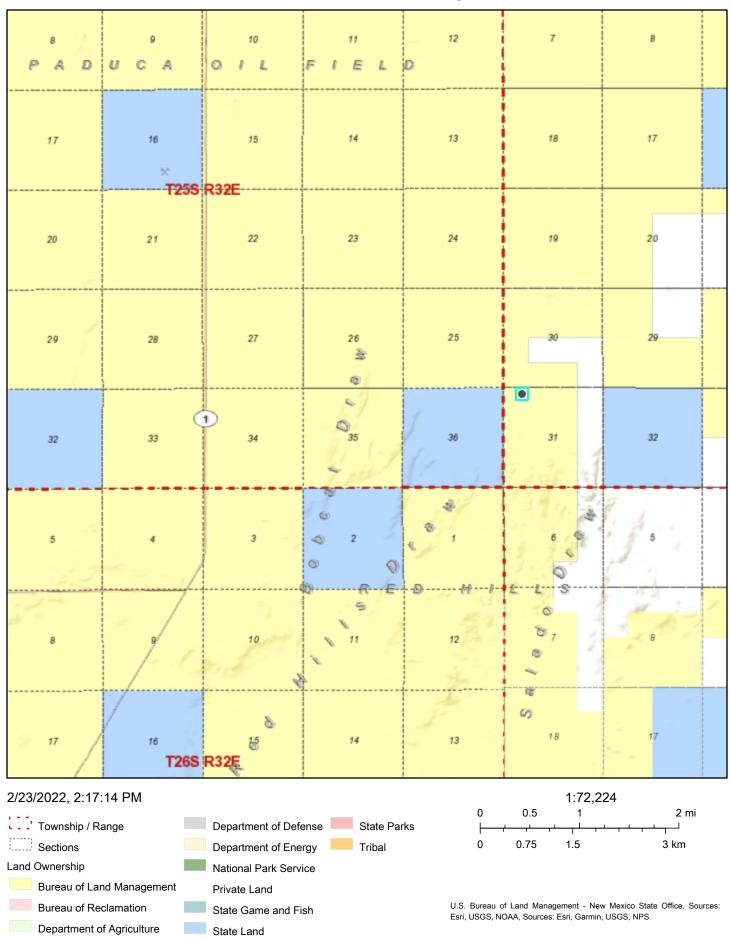




This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Active Mines Near Red Hills Facility Pad 5



National Flood Hazard Layer FIRMette





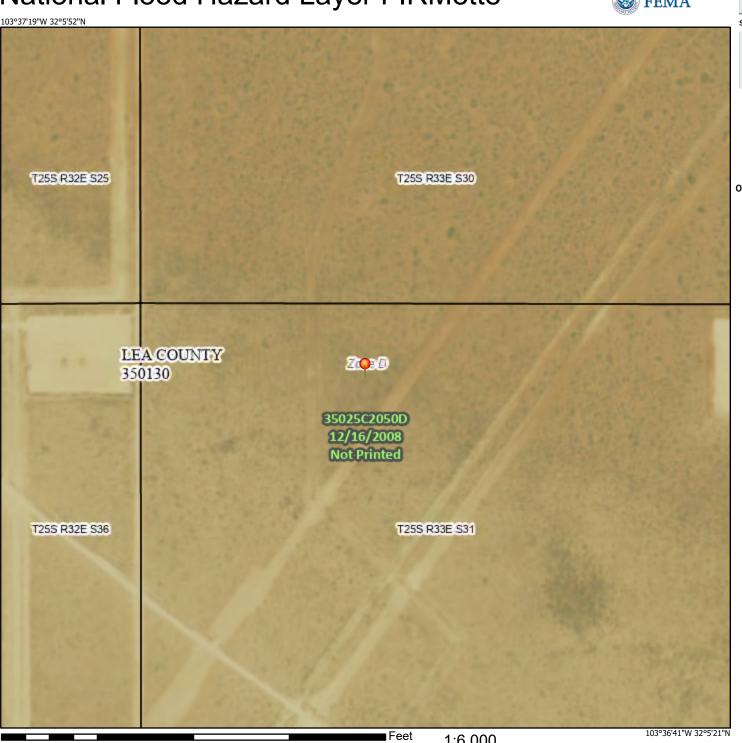
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

> This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/23/2022 at 4:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

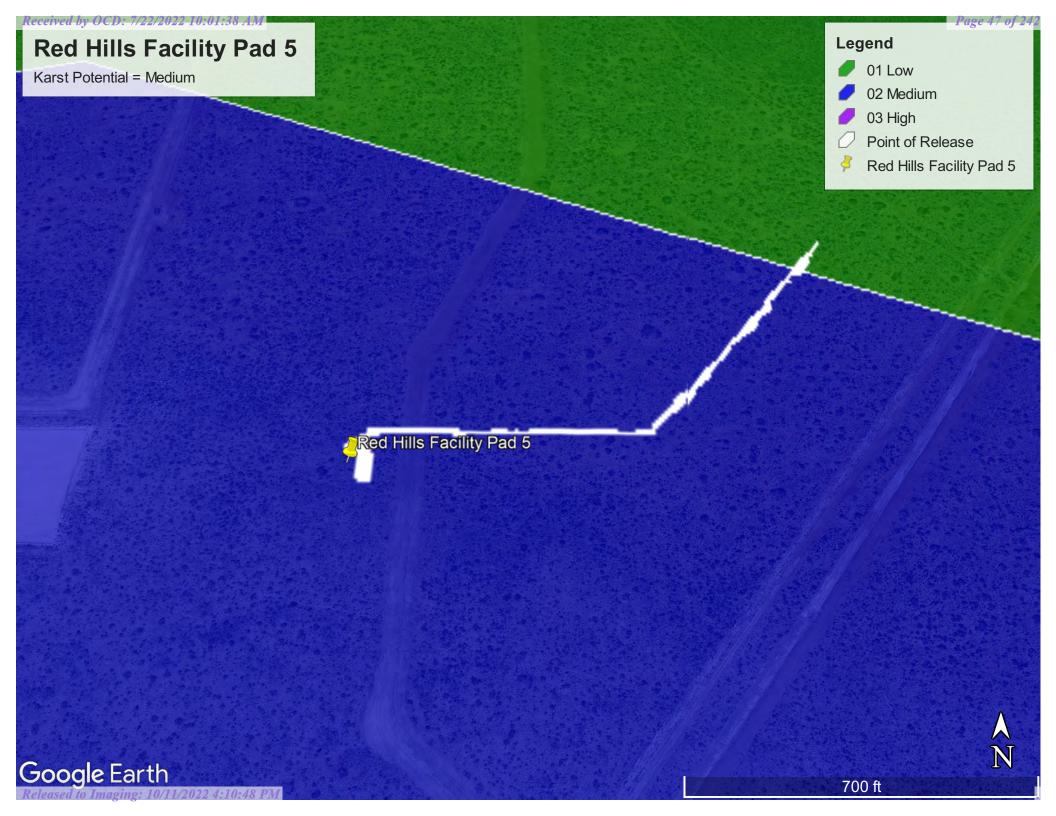
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2.000

ATTACHMENT D

Karst Map



ATTACHMENT E

Envirotech Inc. Laboratory Analysis Reports

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22

Spill

Work Order: E205127

Job Number: 21022-0001

Received: 5/24/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/1/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/1/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill

Workorder: E205127

Date Received: 5/24/2022 11:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/24/2022 11:45:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 05.07.22 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762 whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Lynn Jan Due

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/01/22 11:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 1'	E205127-01A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF02 - 2'	E205127-02A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF03 - 2'	E205127-03A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF04 - 2'	E205127-04A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF05 - 3'	E205127-05A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF06 - 3'	E205127-06A	Soil	05/18/22	05/24/22	Glass Jar, 4 oz.
CONF07 - 4'	E205127-07A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF08 - 4'	E205127-08A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF09 - 5'	E205127-09A	Soil	05/19/22	05/24/22	Glass Jar, 4 oz.
CONF10 - 4.5'	E205127-10A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF11 - 3.5'	E205127-11A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF12 - 3'	E205127-12A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF13 - 3.5'	E205127-13A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
CONF14 - 3.5'	E205127-14A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
BG01 - 0'	E205127-15A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.
BG01 - 1'	E205127-16A	Soil	05/20/22	05/24/22	Glass Jar, 4 oz.

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF01 - 1' E205127-01

		E205127-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.3 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
Surrogate: n-Nonane		106 %	50-200	05/26/22	05/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2222068
Chloride	133	20.0	1	05/26/22	05/31/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF02 - 2' E205127-02

		E203127-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
Surrogate: n-Nonane		109 %	50-200	05/26/22	05/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2222068
Chloride	289	20.0	1	05/26/22	05/31/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF03 - 2'

E205127-03							
		Reporting					
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056	
Benzene	ND	0.0250	1	05/26/22	05/27/22		
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22		
Toluene	ND	0.0250	1	05/26/22	05/27/22		
o-Xylene	ND	0.0250	1	05/26/22	05/27/22		
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22		
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22		
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AK		Batch: 2222073	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22		
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22		
Surrogate: n-Nonane		108 %	50-200	05/26/22	05/27/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2222068	
Chloride	ND	20.0	1	05/26/22	05/31/22		



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF04 - 2'

E205127-04							
		Reporting					
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2222056	
Benzene	ND	0.0250	1	05/26/22	05/27/22		
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22		
Toluene	ND	0.0250	1	05/26/22	05/27/22		
o-Xylene	ND	0.0250	1	05/26/22	05/27/22		
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22		
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22		
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2222056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: AK		Batch: 2222073	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22		
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22		
Surrogate: n-Nonane		104 %	50-200	05/26/22	05/27/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2222068	
Chloride	38.1	20.0	1	05/26/22	05/31/22		



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF05 - 3'

E205127-05						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.1 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
Surrogate: n-Nonane		110 %	50-200	05/26/22	05/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2222068
Chloride	76.3	20.0	1	05/26/22	05/31/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF06 - 3'

E205127-06							
		Reporting					
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056	
Benzene	ND	0.0250	1	05/26/22	05/27/22		
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22		
Toluene	ND	0.0250	1	05/26/22	05/27/22		
o-Xylene	ND	0.0250	1	05/26/22	05/27/22		
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22		
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22		
Surrogate: 4-Bromochlorobenzene-PID		99.8 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AK		Batch: 2222073	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22		
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22		
Surrogate: n-Nonane		108 %	50-200	05/26/22	05/27/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2222068	
Chloride	36.4	20.0	1	05/26/22	05/31/22		



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF07 - 4'

E205127-07						
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
Surrogate: n-Nonane		109 %	50-200	05/26/22	05/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF08 - 4'

E205127-08							
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2222056	
Benzene	ND	0.0250	1	05/26/22	05/27/22		
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22		
Toluene	ND	0.0250	1	05/26/22	05/27/22		
o-Xylene	ND	0.0250	1	05/26/22	05/27/22		
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22		
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22		
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2222056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AK		Batch: 2222073	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22		
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22		
Surrogate: n-Nonane		107 %	50-200	05/26/22	05/27/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2222068	
Chloride	326	20.0	1	05/26/22	05/28/22		



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF09 - 5' E205127-09

		E203127-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
Surrogate: n-Nonane		109 %	50-200	05/26/22	05/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF10 - 4.5'

E205127-10							
		Reporting					
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2222056	
Benzene	ND	0.0250	1	05/26/22	05/27/22		
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22		
Toluene	ND	0.0250	1	05/26/22	05/27/22		
o-Xylene	ND	0.0250	1	05/26/22	05/27/22		
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22		
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22		
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2222056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: AK		Batch: 2222073	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22		
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22		
Surrogate: n-Nonane		111 %	50-200	05/26/22	05/27/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2222068	
Chloride	27.1	20.0	1	05/26/22	05/28/22		



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF11 - 3.5'

E205127-11

Reporting							
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2222056	
Benzene	ND	0.0250	1	05/26/22	05/27/22		
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22		
Toluene	ND	0.0250	1	05/26/22	05/27/22		
o-Xylene	ND	0.0250	1	05/26/22	05/27/22		
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22		
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22		
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2222056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	70-130	05/26/22	05/27/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: AK		Batch: 2222073	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22		
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22		
Surrogate: n-Nonane		109 %	50-200	05/26/22	05/27/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: KL		Batch: 2222068	
Chloride	ND	20.0	1	05/26/22	05/28/22		



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF12 - 3'

E205127-12						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
Surrogate: n-Nonane		110 %	50-200	05/26/22	05/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2222068
Chloride	134	20.0	1	05/26/22	05/28/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF13 - 3.5'

E205127-13

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
Surrogate: n-Nonane		108 %	50-200	05/26/22	05/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: KL		Batch: 2222068



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

CONF14 - 3.5'

E205127-14

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/27/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/27/22	
Surrogate: n-Nonane		110 %	50-200	05/26/22	05/27/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2222068
Chloride	66.9	20.0	1	05/26/22	05/28/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

BG01 - 0' E205127-15

		LEUSIET IS				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
-Xylene	ND	0.0250	1	05/26/22	05/27/22	
o,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: IY		Batch: 2222056
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/28/22	
Surrogate: n-Nonane		110 %	50-200	05/26/22	05/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

BG01 - 1' E205127-16

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2222056
Benzene	ND	0.0250	1	05/26/22	05/27/22	
Ethylbenzene	ND	0.0250	1	05/26/22	05/27/22	
Toluene	ND	0.0250	1	05/26/22	05/27/22	
o-Xylene	ND	0.0250	1	05/26/22	05/27/22	
p,m-Xylene	ND	0.0500	1	05/26/22	05/27/22	
Total Xylenes	ND	0.0250	1	05/26/22	05/27/22	
Surrogate: 4-Bromochlorobenzene-PID		94.2 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2222056	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/22	05/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	05/26/22	05/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AK		Batch: 2222073
Diesel Range Organics (C10-C28)	ND	25.0	1	05/26/22	05/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	05/26/22	05/28/22	
Surrogate: n-Nonane		108 %	50-200	05/26/22	05/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2222068
Chloride	ND	20.0	1	05/26/22	05/28/22	



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	· ·
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/1/2022 11:56:39AM

Carlsbad NM, 88220		Project Number: Project Manager:		022-0001 shley Giovengo	o				6/1/2022 11:56:39AM	
		Volatile Organics by EPA 8021B					Analyst:			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2222056-BLK1)						I	Prepared: 0:	5/26/22 Ar	nalyzed: 05/27/22	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
p,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.7	70-130				
LCS (2222056-BS1)						I	Prepared: 05	5/26/22 Ar	nalyzed: 05/27/22	
Benzene	4.97	0.0250	5.00		99.5	70-130				
Ethylbenzene	4.47	0.0250	5.00		89.4	70-130				
Toluene	4.75	0.0250	5.00		95.1	70-130				
o-Xylene	4.65	0.0250	5.00		93.0	70-130				
p,m-Xylene	9.19	0.0500	10.0		91.9	70-130				
Total Xylenes	13.8	0.0250	15.0		92.3	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.8	70-130				
LCS Dup (2222056-BSD1)						I	Prepared: 05	5/26/22 Ar	nalyzed: 05/27/22	
Benzene	5.30	0.0250	5.00		106	70-130	6.25	20		
Ethylbenzene	4.78	0.0250	5.00		95.7	70-130	6.81	20		
Toluene	5.08	0.0250	5.00		102	70-130	6.54	20		
o-Xylene	4.98	0.0250	5.00		99.5	70-130	6.76	20		
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130	6.76	20		
Total Xylenes	14.8	0.0250	15.0		98.7	70-130	6.76	20		

70-130



QC Summary Data

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo6/1/2022 11:56:39AM

Nonhalogenated	Organics by	EPA	.8015D -	GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2222056-BLK1)						Prepared: 0:	5/26/22 Ar	nalyzed: 05/27/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00	89.6	70-130			
LCS (2222056-BS2)						Prepared: 0:	5/26/22 Ar	nalyzed: 05/27/22
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00	90.2	70-130			
LCS Dup (2222056-BSD2)						Prepared: 0:	5/26/22 Ar	nalyzed: 05/27/22
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	98.1	70-130	2.89	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00	89.3	70-130			



QC Summary Data

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo6/1/2022 11:56:39AM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go				6/1/2022 11:56:39AN
	Nonhal	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: AK
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2222073-BLK1)							Prepared: 0	5/26/22 Aı	nalyzed: 05/27/22
biesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	54.4		50.0		109	50-200			
.CS (2222073-BS1)							Prepared: 0	5/26/22 Aı	nalyzed: 05/27/22
riesel Range Organics (C10-C28)	544	25.0	500		109	38-132			
urrogate: n-Nonane	53.5		50.0		107	50-200			
Matrix Spike (2222073-MS1)				Source:	E205127-	02	Prepared: 0	5/26/22 Aı	nalyzed: 05/27/22
riesel Range Organics (C10-C28)	544	25.0	500	ND	109	38-132			
urrogate: n-Nonane	54.0		50.0		108	50-200			
Matrix Spike Dup (2222073-MSD1)				Source:	E205127-	02	Prepared: 0	5/26/22 Aı	nalyzed: 05/27/22
tiesel Range Organics (C10-C28)	517	25.0	500	ND	103	38-132	5.18	20	
urrogate: n-Nonane	52.1		50.0		104	50-200			



Matrix Spike Dup (2222068-MSD1)

337

Chloride

Prepared: 05/26/22 Analyzed: 05/31/22

20

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Red Hills Facili 1022-0001 Ashley Gioveng	•	5.07.22 S _I	oill		Reported: 6/1/2022 11:56:39AM
		Anions	by EPA	300.0/9056 A	4				Analyst: KL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
LCS (2222068-BS1)							Prepared: 0	5/26/22 A	.nalyzed: 05/31/22
Chloride	262	20.0	250		105	90-110			
Matrix Spike (2222068-MS1)				Source:	E205127-	01	Prepared: 0	5/26/22 A	nalyzed: 05/31/22
Chloride	394	20.0	250	133	104	80-120			

250

20.0

Source: E205127-01

81.8

80-120

15.4

133

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/01/22 11:56

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



10:01:38

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above

Additional Instructions: Preserved on ice; Please cc shar harvester

client: Vaiser-Francis Oil Co

Project Manager: Ashley Giovenso

City, State, Zip Carlsbad, Nm 88220

Matrix

imail: ashley gievengo a wescom

Containers

Sample ID

Address: 1224 Standpice &

Phone: 505-382-1211

Sampled

13:26 05/20/2250:1

Report due by:

Time

Sampled

and ashley giovengo advescoming coming. I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location,

e day they are sampled or received

Relinquished by: (Signature)	Date Date	Time	Sampled by:			packed in ice at an avg tem	p above 0 but less than 6 °C or	n subset
	05.23.22 Date 5-33-37 Date	4:000	Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature)	5/24/22 /	me	Received on ice:		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sluc	dge, A - Aqueous, O -	Other ·				AVG Temp °C 7		1

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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10

Printed: 5/24/2022 2:10:42PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

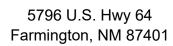
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	05/24/22	11:45	Work Order ID:	E205127
Phone:	(505) 382-1211	Date Logged In:	05/24/22	12:55	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	05/31/22	17:00 (4 day TAT)		
GI. I						
	f Custody (COC)		••			
	the sample ID match the COC?	ah tha COC	Yes			
	the number of samples per sampling site location mat	on the COC	Yes			
	samples dropped off by client or carrier?	.4. 419	Yes Yes	Carrier: <u>UPS</u>		
	ne COC complete, i.e., signatures, dates/times, reques	sted analyses?				
5. were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.		Yes		<u>Comment</u>	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La						
	e field sample labels filled out with the minimum info	rmation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	eserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved m	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborator	ry?	No			
	a subcontract laboratory specified by the client and if	-	NA	Subcontract Lab: na		
Client l	nstruction					
<u>enene i</u>	non action					

Date

Report to:
Ashley Giovengo





Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22

Spill

Work Order: E205137

Job Number: 21022-0001

Received: 5/26/2022

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 6/2/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/2/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill

Workorder: E205137

Date Received: 5/26/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/26/2022 10:00:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 05.07.22 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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labadmin@envirotech-inc.com

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Office: 505-421-LABS(5227)

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Donoutoda	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/02/22 14:31	

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
CONF 17 - 2'	E205137-01A Soil	05/24/22	05/26/22	Glass Jar, 4 oz.
CONF 15 - 3.5'	E205137-02A Soil	05/24/22	05/26/22	Glass Jar, 4 oz.
CONF 16 - 3'	E205137-03A Soil	05/24/22	05/26/22	Glass Jar, 4 oz.



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/2/2022 2:31:07PM

CONF 17 - 2'

E205137-01

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2223018
Benzene	ND	0.0250	1	06/01/22	06/01/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/01/22	
Toluene	ND	0.0250	1	06/01/22	06/01/22	
o-Xylene	ND	0.0250	1	06/01/22	06/01/22	
p,m-Xylene	ND	0.0500	1	06/01/22	06/01/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/01/22	
Surrogate: 4-Bromochlorobenzene-PID		89.0 %	70-130	06/01/22	06/01/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2223018
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	06/01/22	06/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2223014
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/22	06/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/22	06/01/22	
Surrogate: n-Nonane		92.0 %	50-200	06/01/22	06/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: KL		Batch: 2223019
Chloride	92.4	20.0	1	06/01/22	06/01/22	

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/2/2022 2:31:07PM

CONF 15 - 3.5'

E205137-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2223018
Benzene	ND	0.0250	1	06/01/22	06/01/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/01/22	
Toluene	ND	0.0250	1	06/01/22	06/01/22	
o-Xylene	ND	0.0250	1	06/01/22	06/01/22	
p,m-Xylene	ND	0.0500	1	06/01/22	06/01/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/01/22	
Surrogate: 4-Bromochlorobenzene-PID		87.9 %	70-130	06/01/22	06/01/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2223018
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %	70-130	06/01/22	06/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2223014
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/22	06/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/22	06/01/22	
Surrogate: n-Nonane		107 %	50-200	06/01/22	06/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2223019
Chloride	130	20.0	1	06/01/22	06/01/22	

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/2/2022 2:31:07PM

CONF 16 - 3' E205137-03

		E203137-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY	<u> </u>	Batch: 2223018
Benzene	ND	0.0250	1	06/01/22	06/01/22	
Ethylbenzene	ND	0.0250	1	06/01/22	06/01/22	
Foluene	ND	0.0250	1	06/01/22	06/01/22	
o-Xylene	ND	0.0250	1	06/01/22	06/01/22	
o,m-Xylene	ND	0.0500	1	06/01/22	06/01/22	
Total Xylenes	ND	0.0250	1	06/01/22	06/01/22	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	06/01/22	06/01/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2223018
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/01/22	06/01/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	70-130	06/01/22	06/01/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2223014
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/22	06/01/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/22	06/01/22	
Surrogate: n-Nonane		91.4 %	50-200	06/01/22	06/01/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: KL		Batch: 2223019
Chloride	35.2	20.0	1	06/01/22	06/01/22	



Toluene

o-Xylene

Benzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Ethylbenzene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

LCS Dup (2223018-BSD1)

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		ed Hills Facili .022-0001	ty Pad 5 0	5.07.22 Sp	ill		Reported:
Carlsbad NM, 88220		Project Manager:	A	shley Gioveng	50				6/2/2022 2:31:07PM
		Volatile O	rganics l	y EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2223018-BLK1)							Prepared: 00	6/01/22 A	nalyzed: 06/01/22
Benzene	ND	0.0250							
		0.0250							
Ethylbenzene	ND	0.0250							
Ethylbenzene	ND ND								
Ethylbenzene Toluene		0.0250							
Ethylbenzene Toluene o-Xylene	ND	0.0250 0.0250							
	ND ND	0.0250 0.0250 0.0250							
Ethylbenzene Toluene o-Xylene p,m-Xylene	ND ND ND	0.0250 0.0250 0.0250 0.0500	8.00		91.4	70-130			
Ethylbenzene Toluene o-Xylene p,m-Xylene Total Xylenes	ND ND ND ND	0.0250 0.0250 0.0250 0.0500	8.00		91.4		Prepared: 00	6/01/22 A	analyzed: 06/01/22
Ethylbenzene Toluene o-Xylene p,m-Xylene Total Xylenes Surrogate: 4-Bromochlorobenzene-PID	ND ND ND ND	0.0250 0.0250 0.0250 0.0500	8.00 5.00		91.4		Prepared: 06	6/01/22 A	analyzed: 06/01/22

5.00

5.00

10.0

15.0

8.00

5.00

5.00

5.00

5.00

10.0

15.0

8.00

0.0250

0.0250

0.0500

0.0250

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

95.4

94.7

94.2

94.4

103

96.3

90.4

94.9

94.1

93.3

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

0.531

1.06

0.532

0.600

1.02

0.879

Prepared: 06/01/22 Analyzed: 06/01/22

20

20

20

20

4.77

4.74

9.42

14.2

8.22

4.81

4.52

4.75

4.71

9.33

7.48

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	-
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/2/2022 2:31:07PM

Carlsbad NM, 88220		Project Number: Project Manager		022-0001 shley Gioveng	jo			6.	/2/2022 2:31:07PM
	Non	halogenated (Organics 1	by EPA 801	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2223018-BLK1)]	Prepared: 0	6/01/22 Ana	lyzed: 06/01/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			
LCS (2223018-BS2)						1	Prepared: 0	6/01/22 Ana	lyzed: 06/01/22
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			
LCS Dup (2223018-BSD2)						1	Prepared: 0	6/01/22 Ana	lyzed: 06/01/22
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130	4.34	20	

92.5

70-130

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/2/2022 2:31:07PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go				6/2/2022 2:31:07PM
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: JL									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2223014-BLK1)							Prepared: 0	6/01/22 Ar	nalyzed: 06/01/22
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	41.0		50.0		82.0	50-200			
.CS (2223014-BS1)							Prepared: 0	6/01/22 Ar	nalyzed: 06/01/22
riesel Range Organics (C10-C28)	474	25.0	500		94.8	38-132			
urrogate: n-Nonane	43.7		50.0		87.5	50-200			
Matrix Spike (2223014-MS1)				Source:	E205137-0	02	Prepared: 0	6/01/22 Ar	nalyzed: 06/01/22
viesel Range Organics (C10-C28)	484	25.0	500	ND	96.8	38-132			
urrogate: n-Nonane	45.0		50.0		90.0	50-200			
Matrix Spike Dup (2223014-MSD1)				Source:	E205137-	02	Prepared: 0	6/01/22 Ar	nalyzed: 06/01/22
tiesel Range Organics (C10-C28)	495	25.0	500	ND	99.0	38-132	2.20	20	
urrogate: n-Nonane	45.8		50.0		91.6	50-200			

Matrix Spike Dup (2223019-MSD1)

Chloride

338

20.0

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number: Project Manager	:	Red Hills Facili 21022-0001 Ashley Gioven	•	05.07.22 Sj	pill		Reported: 6/2/2022 2:31:07PM
L		Anions	by EPA	300.0/9056	A				Analyst: KL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2223019-BLK1)							Prepared: 0	6/01/22 A	nalyzed: 06/01/22
Chloride	ND	20.0							
LCS (2223019-BS1)							Prepared: 0	6/01/22 A	nalyzed: 06/01/22
Chloride	243	20.0	250		97.1	90-110			
Matrix Spike (2223019-MS1)				Source:	E205137-	-01	Prepared: 0	6/01/22 A	nalyzed: 06/01/22
Chloride	324	20.0	250	92.4	92.6	80-120			

250

Source: E205137-01

98.3

80-120

4.29

92.4

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 06/01/22 Analyzed: 06/01/22

20

Definitions and Notes

	Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
ı	1224 Standpipe Rd	Project Number:	21022-0001	Reported:
ı	Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/02/22 14:31

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page 90 of 242

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envirotech

envirotech Inc.

Printed: 5/26/2022 11:14:28AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Piene: (\$95) 382-121] (\$95) 382-121 Deach congression we contain come Deach congression Deach Deach congression Deach congression Deach congression Deach congression Deach congression Deach congression Deach Deach	Client:	Kaiser Francis Oil Company	Date Received:	05/26/22	10:00	Work Order ID:	E205137
Chain of Custody (COC) 1. Does the sample 10 match the COC? 2. Does the number of samples per sampling site location match the COC yes 3. Were samples dopped of thy elicited to carrier? 4. Was the COC complete, i.e., signatures, dateschimes, requested analyses? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 6. Diet the COC indicates standard TAT, or Expediend TAT? 6. Diet the COC indicates standard TAT, or Expediend TAT? 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received in the cooler than the cooler received in good condition? 7. Was a sample received on its of required. It samples are received will 15 minutes of sampling 7. If no visible is, e., recend the emperature. Actual sample temperature: 4°C 7. Sample Constituer 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 8. Are non-VOC samples collected in the correct containers? 8. Are non-VOC samples collected in the correct containers? 8. Are sample Tocal collected? 8. Are non-VOC samples collected or the work of the containers collected? 8. Are sample to container or equired and or requested for dissolved metals? 8. Are samples to container or equired and or requested for dissolved metals? 8. Are samples to contain or equired and or equired to the analyzed? 8. Are samples to equired to get sent to a subcontract laboratory? 8. Are samples required to get sent to a subcontract laboratory? 8. Are samples required to get sent to a subcontract laboratory? 8. Are samples required to get sent to a subcontract laboratory? 8. Are samples re	Phone:	(505) 382-1211	Date Logged In:	05/26/22	09:29	Logged In By:	Caitlin Christian
1. Does the sample ID match the COC? 2. Does the number of sampling per sampling site location match the COC 3. Does the number of sampling sper sampling site location match the COC 3. Were samples dopped off by client or carrier? 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? 5. Were all samples received within boding time? 5. Note: Analysis, such as pel which should be conducted in the field, i.e. 15 minutes bod time, are not included in this discussion. Sample I'Ura Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 8. If yers, was cooler received in good condition? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals present? 10. Were custody/security seals present? 11. If yes, were custody/security seals intere? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°4.2°C Note: Thermal preservation is not required. Actual sample temperature: 4°C 11. Are yet of the temperature. Actual sample temperature: 4°C 12. Was the samples collected for IVO Aviale? 13. Are VOC samples collected in VOA Vaile? 14. Are aquenus VOC samples collected in the currect containers? 15. Are VOC samples collected in the currect containers? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the currect containers? 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: Sample I'Ura Around I and in the currect containers? 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(b) correctly preserved? 23. Less amples and peach have more than one phase, i.e., multiplase? 24. Is lab filteration required and/or requested for dissolved metals? 25. Does the sample have more than one phase, i.e., multiplase? 26. The peace of the corrier of the corre	Email:	ashley.giovengo@wescominc.com	Due Date:	06/02/22	17:00 (4 day TAT)		
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	Client I	<u>Instruction</u>					

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22

Spill

Work Order: E205148

Job Number: 21022-0001

Received: 5/27/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/3/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/3/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill

Workorder: E205148

Date Received: 5/27/2022 12:38:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/27/2022 12:38:00PM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 05.07.22 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	Reporteu:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/03/22 14:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF16- 3'	E205148-01A	Solid	05/24/22	05/27/22	Glass Jar, 4 oz.
CONF17 - 2'	E205148-02A	Solid	05/24/22	05/27/22	Glass Jar, 4 oz.
CONF18 - 2.5'	E205148-03A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF 19 - 2.5'	E205148-04A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF20 - 2.5'	E205148-05A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF21 - 2.5'	E205148-06A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF22 - 3'	E205148-07A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF23 - 3'	E205148-08A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF24Wall - 1'	E205148-09A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.
CONF25Wall - 1'	E205148-10A	Solid	05/25/22	05/27/22	Glass Jar, 4 oz.



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

CONF16- 3' E205148-01

		E205148-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Thatyte	resur	- Emili		1	7 mary 2cu	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/02/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/02/22	
Toluene	ND	0.0313	1	06/02/22	06/02/22	
o-Xylene	ND	0.0313	1	06/02/22	06/02/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/02/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/02/22	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	06/02/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	06/02/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		110 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2223034
Chloride	48.3	20.0	1	06/02/22	06/02/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

CONF17 - 2'

		E205148-02					
Reporting							
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2223030	
Benzene	ND	0.0313	1	06/02/22	06/02/22		
Ethylbenzene	ND	0.0313	1	06/02/22	06/02/22		
Toluene	ND	0.0313	1	06/02/22	06/02/22		
o-Xylene	ND	0.0313	1	06/02/22	06/02/22		
p,m-Xylene	ND	0.0625	1	06/02/22	06/02/22		
Total Xylenes	ND	0.0313	1	06/02/22	06/02/22		
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	06/02/22	06/02/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2223030	
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/02/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	70-130	06/02/22	06/02/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: JL		Batch: 2223044	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22		
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22		
Surrogate: n-Nonane		104 %	50-200	06/02/22	06/03/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: KL		Batch: 2223034	
Chloride	98.6	20.0	1	06/02/22	06/02/22		



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

CONF18 - 2.5'

		Damati				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		alyst: IY	7 111111, 224	Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/02/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/02/22	
Toluene	ND	0.0313	1	06/02/22	06/02/22	
o-Xylene	ND	0.0313	1	06/02/22	06/02/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/02/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/02/22	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	06/02/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/02/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.3 %	70-130	06/02/22	06/02/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		103 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2223034
Chloride	136	20.0	1	06/02/22	06/02/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

CONF 19 - 2.5'

		- ·				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		97.8 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2223034
Chloride	ND	20.0	1	06/02/22	06/02/22	_



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

CONF20 - 2.5'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		102 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2223034
Chloride	108	20.0	1	06/02/22	06/02/22	·



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

CONF21 - 2.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		103 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2223034
Chloride	222	20.0	1	06/02/22	06/02/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

CONF22 - 3'

		E205148-07				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		99.9 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: KL		Batch: 2223034
Chloride	32.8	20.0	1	06/02/22	06/02/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

CONF23 - 3'

		E205148-08				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.5 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		104 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: KL		Batch: 2223034
Chloride	62.5	20.0	1	06/02/22	06/02/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/3/2022 2:59:40PM

CONF24Wall - 1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		102 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2223034
Chloride	ND	20.0	1	06/02/22	06/02/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/3/2022 2:59:40PM

CONF25Wall - 1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2223030
Benzene	ND	0.0313	1	06/02/22	06/03/22	
Ethylbenzene	ND	0.0313	1	06/02/22	06/03/22	
Toluene	ND	0.0313	1	06/02/22	06/03/22	
o-Xylene	ND	0.0313	1	06/02/22	06/03/22	
p,m-Xylene	ND	0.0625	1	06/02/22	06/03/22	
Total Xylenes	ND	0.0313	1	06/02/22	06/03/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2223030
Gasoline Range Organics (C6-C10)	ND	25.0	1	06/02/22	06/03/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	06/02/22	06/03/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2223044
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/22	06/03/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/22	06/03/22	
Surrogate: n-Nonane		104 %	50-200	06/02/22	06/03/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2223034
Chloride	ND	20.0	1	06/02/22	06/02/22	



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Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		ed Hills Facil	ity Pad 5 0	5.07.22 S ₁	pill		Reported:
Carlsbad NM, 88220		Project Manager:		shley Gioven	go				6/3/2022 2:59:40PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: IY
Analyte	D. Is	Reporting Limit	Spike	Source Result	D	Rec Limits	RPD	RPD Limit	
	Result mg/kg	mg/kg	Level mg/kg	mg/kg	Rec %	%	%	%	Notes
Blank (2223030-BLK1)							Prepared: 0	6/02/22. At	nalyzed: 06/03/22
Benzene	ND	0.0313					r		,
Ethylbenzene	ND	0.0313							
Toluene	ND	0.0313							
o-Xylene	ND	0.0313							
o,m-Xylene	ND	0.0625							
Fotal Xylenes	ND	0.0313							
Surrogate: 4-Bromochlorobenzene-PID	10.1		10.0		101	70-130			
LCS (2223030-BS1)							Prepared: 0	6/02/22 Aı	nalyzed: 06/03/22
Benzene	6.09	0.0313	6.25		97.5	70-130			
Ethylbenzene	5.82	0.0313	6.25		93.2	70-130			
Coluene	6.12	0.0313	6.25		97.9	70-130			
-Xylene	6.16	0.0313	6.25		98.5	70-130			
o,m-Xylene	12.1	0.0625	12.5		96.4	70-130			
Total Xylenes	18.2	0.0313	18.8		97.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	10.2		10.0		102	70-130			
Matrix Spike (2223030-MS1)				Source:	E205148-	01	Prepared: 0	6/02/22 A1	nalyzed: 06/03/22
Benzene	6.46	0.0313	6.25	ND	103	54-133			
Ethylbenzene	5.81	0.0313	6.25	ND	93.0	61-133			
Coluene	6.21	0.0313	6.25	ND	99.3	61-130			
o-Xylene	6.03	0.0313	6.25	ND	96.4	63-131			
o,m-Xylene	12.0	0.0625	12.5	ND	95.9	63-131			
Total Xylenes	18.0	0.0313	18.8	ND	96.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	9.78		10.0		97.8	70-130			
Matrix Spike Dup (2223030-MSD1)				Source:	E205148-	01	Prepared: 0	6/02/22 Aı	nalyzed: 06/03/22
Benzene	6.00	0.0313	6.25	ND	95.9	54-133	7.42	20	
Ethylbenzene	5.77	0.0313	6.25	ND	92.3	61-133	0.749	20	
Toluene	6.04	0.0313	6.25	ND	96.6	61-130	2.77	20	
o-Xylene	6.03	0.0313	6.25	ND	96.4	63-131	0.0415	20	
p,m-Xylene	11.9	0.0625	12.5	ND	95.1	63-131	0.806	20	
Total Villanas	170	0.0212	100	ND	05.6	62 121	0.550	20	

17.9

9.95

0.0313

18.8

10.0

ND

95.6

99.5

63-131

70-130

0.550

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 5 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			6/	3/2022 2:59:40PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2223030-BLK1)							Prepared: 0	6/02/22 Ana	yzed: 06/03/22
Gasoline Range Organics (C6-C10)	ND	25.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.12		10.0		91.2	70-130			
LCS (2223030-BS2)							Prepared: 0	6/02/22 Ana	lyzed: 06/03/22
Gasoline Range Organics (C6-C10)	57.8	25.0	62.5		92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.25		10.0		92.5	70-130			
Matrix Spike (2223030-MS2)				Source:	E205148-)1	Prepared: 0	6/02/22 Ana	lyzed: 06/03/22
Gasoline Range Organics (C6-C10)	60.5	25.0	62.5	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.23		10.0		92.3	70-130			
Matrix Spike Dup (2223030-MSD2)				Source:	E205148-	01	Prepared: 0	6/02/22 Ana	lyzed: 06/03/22
Gasoline Range Organics (C6-C10)	59.0	25.0	62.5	ND	94.4	70-130	2.57	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.18		10.0		91.8	70-130			



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	-
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/3/2022 2:59:40PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go				6/3/2022 2:59:40PM	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO						Analyst: JL			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2223044-BLK1)							Prepared: 06/02/22 Analyzed: 06/03/22			
Diesel Range Organics (C10-C28)	ND	25.0								
Oil Range Organics (C28-C36)	ND	50.0								
Surrogate: n-Nonane	51.7		50.0		103	50-200				
LCS (2223044-BS1)								Prepared: 06/02/22 Analyzed: 06/03/22		
Diesel Range Organics (C10-C28)	503	25.0	500		101	38-132				
Surrogate: n-Nonane	44.9		50.0		89.7	50-200				
Matrix Spike (2223044-MS1)				Source:	Source: E205148-05			Prepared: 06/02/22 Analyzed: 06/03/22		
Diesel Range Organics (C10-C28)	528	25.0	500	ND	106	38-132				
Surrogate: n-Nonane	51.7		50.0		103	50-200				
Matrix Spike Dup (2223044-MSD1)				Source:	Source: E205148-05			Prepared: 06/02/22 Analyzed: 06/03/22		
Diesel Range Organics (C10-C28)	518	25.0	500	ND	104	38-132	1.90	20		
Surrogate: n-Nonane	52.0		50.0		104	50-200				



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		Red Hills Facili 1022-0001	ty Pad 5 05	5.07.22 S _I	oill		Reported:
Carlsbad NM, 88220		Project Manager:		Ashley Gioveng	go				6/3/2022 2:59:40PM
		Anions	by EPA	300.0/9056	1				Analyst: KL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2223034-BLK1)							Prepared: 0	6/02/22 A	analyzed: 06/02/22
Chloride	ND	20.0							
LCS (2223034-BS1)							Prepared: 0	6/02/22 A	analyzed: 06/02/22
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2223034-MS1)				Source:	E205148-0)1	Prepared: 0	6/02/22 A	analyzed: 06/02/22
Chloride	300	20.0	250	48.3	101	80-120			
Matrix Spike Dup (2223034-MSD1)				Source:	E205148-0)1	Prepared: 0	6/02/22 A	analyzed: 06/02/22
Chloride	305	20.0	250	48.3	103	80-120	1.87	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/03/22 14:59

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: K	aiser Fran	cis Oil Co)			Bill To		Т		La	ab U	se Or	ılv		П			TA	т		FPA D	rogram
Project:	Red Hills	Facility Pa	ad 5 05.0	7.22 Spill]	Attention: Wescom Inc		Lab	WO		-	Job		ber	_	1D	2D	3D		ndard	CWA	SDWA
Project N	/lanager:_	Ashley G	iovengo		يا إ	Address: 1224 Standpipe Rd		ΙΕά	705	148	ζ			-000						X		35 11
Address:	_1224 Sta	ndpipe R	d		_ <u> </u>	City, State, Zip: Carlsbad, NM 882	20					_		nd Met	_		•					RCRA
City, Stat	e, Zip: Ca	rlsbad, N	M 88220		1	Phone: 505-382-1211			1													11311
	<u>505-382-1</u>				<u>.</u>	Email: ashley.giovengo@wescom	inc.com] 5	8015		1							[.		State	
	<u>shley.giov</u>	engo@w	escomino	com	1			y 80	8	=		۱ _	300.0			_			Ī	NM CO	UT AZ	TXT
Report d	ue by:] ģ	စ္စ	8	826	907	8			Z	¥		.	×		5
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe	DRO/ORO by 8015	GRO/DRO by	ВТЕХ by 8021	VOC by 8260	Metals 6010	Chloride			верос	Верос				Remarks	71:30
14:53	5/24/22	Soil	1 Jar			CONF15 - 3.5'	-1									x						- AM
14:56	5/24/22	Soil	1 Jar			CONF16 - 3'	2									х						
13:12	5/24/22	Soil	1 Jar			CONF17 - 2'	3									х						
13:13	5/25/22	Soil	1 Jar			CONF 18 - 2.5'	4									х						
13:16	5/25/22	Soil	1 Jar			CONF19 - 2.5'	5									х						
14:23	5/25/22	Soil	1 Jar			CONF20 - 2.5'	4									х						
14:27	5/25/22	Soil	1 Jar			CONF21 - 2.5'	7									х						
15:20	5/25/22	Soil	1 Jar			CONF22 - 3'	8									х						
15:24	5/25/22	Soil	1 Jar			CONF23 - 3'	9									х						
16:42	5/25/22	Soil	1 Jar			CONF24Wall - 1'	10									х						
Addition	al Instruc	tions: K	Cept on ic	e, Please CC:	cole.b	urton@wescominc.com, shar.ham	vester@we	scom	inc.c	om,	ashle	y.gic	ven	go@w	esco	omiı	nc.co	m				
				icity of this sample. may be grounds for		are that tampering with or intentionally mislab	elling the samp	le locat	ion,			Sample	es requ	Iring thern	nal pre	eserva	tion mu	st be rec	elved on	n ice the day t ubsequent day	they are sampl	ed or received
	ed by: (Sign:		Date			on. Sampled by: Received by: (Signary)	Data -		Time						cinp a					rosequent day	/s. 	
MAL	alm a	deer	ea Of	-210.1210	D:19	ant course las	5-26	<u>-0</u>		12	A	Rec	eived	on ice	e:		D/ N	se On	ly.			
	ed by: (Sign)			36-00 Time		Receifed by: (Signature)	5-26	-22	Time 18	3:40	<u> </u>	<u>T1</u>			_ :	<u>T2</u>			· 	T3	•	
Relinquish	ed by: (Sign	ature)	Date		2:34	Received by: (Signature)	5ate / 5a7	122	Time /2.	:38	7	AVG	i Ten	np °C	4	,						
				queous, O - Other_			Contain	er Typ	e: g -	glass,	p - p	a\vlo	lastic	. ag - ar	mbei	r gla	ss, v -	VOA				-
Note: Sam	ples are disc	arded 30 d	ays after re	sults are reported	d unless	other arrangements are made. Hazardou	ıs samples wi	ll be re	turne	d to cli	ient o	dispo	sed o	f at the	clien	nt exp	ense.	The r	eport f	for the ana	lysis of the	above 🐬
Isamples is	applicable of	only to thos	e samples r	eceived by the la	borator	with this COC. The liability of the laborate	ory is limited	to the	amou	nt naid	for o	n tha	rener					•	•			_ @

Client: k	Kaiser Fran	cis Oil Co				Bill To		T-		12	th Us	e On	lv					TA	<u> </u>	FDA D	rogram
	Red Hills I			7.22 Spill	l i	Attention: Wescom Inc		lah	WO#			Job N		her	11) [2	Τα	3D	Standard	CWA	SDW
	Manager:					Address: 1224 Standpipe Rd		FÁ	から	14	X			∞		1	-		X	CVVA	SOVV
	1224 Sta					City, State, Zip: Carlsbad, NM 88220		1-5						nd Met							RCRAN
	te, Zip: Ca					Phone: 505-382-1211		1								Т	Т	Т			7.01
	505-382-1				i i	Email: ashley.giovengo@wescoming	com	ري ا ^م	ις:									- 1		State	
	shley.giov		escomino	c.com	ľ	zmam asimayigi.aveniga e wasaaniini		8	8	_	_	1 1	0						NMI CO	UT AZ	TX I
Report d	ue by:							DRO/ORO by 8015	9	802	3560	용	윮			Ž	4	İ	<u> </u>	1	
Time	Date		No. of	Ī			Lab	1 ₹	ğ	ξ	by 8	als 6	rige		- 13	ا ا	اير	ŀ		<u> </u>	9
Sampled	Sampled	Matrix	Containers	Sample ID			Number	%	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDDL	BGDOC	- 1		Remarks	0:01:38
16:21	5/25/22	Soil	1 Jar			CONF25Wall - 1'	11									ĸ	_				8 AM
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Additio	nal Instruc	tions: I	Cept on ic	ce, Please CC: o	ole.b	urton@wescominc.com, shar.harve	ster@we	scom	inc.c	om,	ashle	y.gio	ven	go@w	escor	ninc	.con	n '			
1						vare that tampering with or intentionally mislabell	ing the sampl	e locat	on,										lived on ice the day		ed or received
				may be grounds for l			1-		T			 							°C on subsequent d	вуѕ.	
Relinquish	ped by: (Sign)	ature)	10 Date	.210.22 JC	:19	an Redeived by: (Signature)	\$-21	o-A	Time	10:	20	Rece	eivec	l on ice	e: /	Lat	Use N	e Onl	У		
Remount	ned by: (Sign:	eture)	IDate	e ilime	_	Receivetby: (Signature)	Date		Time			1			(المرني	,				
	tues ()			1 1600	<u>7:0</u>		5-26.	-22	18	.44	<u> </u>	<u>T1</u>			_ I	2			<u>T3</u>		
Relinquis	ed by: (Sign:	ature)	Date	Time		Received by: Signature	Date	1_	Time	\ <u> -</u>	·			-	11						
ICL				27-22 17	4:38	Cartle Mile	5/27	02	Vó	:3	8	AVG	Ten	np °C_	4						
				Aqueous, O - Other _			Containe	r Typ	e: g -	glass,	p - p	oly/pi	astic	, ag - aı	nber	glass	, v - \	VOA			P
Note: San	nples are disc	arded 30 d	lays after re	esults are reported	unles	s other arrangements are made. Hazardous	samples wil	l be re	turne	d to cl	ent o	r dispo	sed o	f at the	client	expe	nse.	The re	port for the an	alysis of the	above 🧖
samples is	s applicable o	only to thos	e samples i	received by the lai	orato	y with this COC. The liability of the laborator	y is limited t	to the	amoui	nt paid	l for o	n the r	repor	t.							(0)

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Г	Client:	Kaiser Fra

Chain of Custody

PO 34986 Page 1 of

Client: K	aiser Fran	cis Oil Co)		Bill To)				La	b Us	e Or	ily		T		T	AT		FPA P	rogram
	Red Hills I			7.22 Spill	Attention: Wescom Inc			Lab	WO#			Job	Num		1D	2D	3D		andard	CWA	SDWA
	Manager:				Address: 1224 Standpipe			Εά	05	148				-0001					X		
	1224 Sta				City, State, Zip: Carlsbad,	NIVI 88220	-				_	Analy	ysis ar	d Meth	od						RCRA
	e, Zip: Ca 505-382-1		IVI 8822U		Phone: 505-382-1211																
THE RESERVE THE PARTY OF THE PA	shley.giov	The second second	escomino	com	Email: ashley.giovengo@	wescoming	.com	8015	8015			-								State	
Report d	The second secon	Eligo(www	escommic	com .				by		8021	260	91	300.0		Z	¥			NM CO	UT AZ	TX
Time	Date		No. of				Lab	ORC	/DRC	by 8	by 8.	15 60	ide 3						×		
Sampled	Sampled	Matrix	Containers	Sample ID			Number	DRO/ORO by 8015	GRO/DRO by	втех by	VOC by 8260	Metals 6010	Chloride 300.0		ВСВОС	ВСБОС				Remarks	
14:53	5/24/22	Soil	1 Jar		CONF15 - 3.5'		-1												Samp	de no	7+
		3011	1 Jai												×				rec	eived	
14:56	5/24/22	Soil	1 Jar		CONF16 - 3'	1	2								х				5/27	122 C	2
13:12	5/24/22	Soil	1 Jar		CONF17 - 2'	2	3								x						
13:13	5/25/22	Soil	1 Jar		CONF 18 - 2.5'	3	¥								x						
13:16	5/25/22	Soil	1 Jar		CONF19 - 2.5'	4	8								х						
14:23	5/25/22	Soil	1 Jar		CONF20 - 2.5'	5	10								х					-	
14:27	5/25/22	Soil	1 Jar	1	CONF21 - 2.5'	6	7								x						
15:20	5/25/22	Soil	1 Jar		CONF22 - 3' 7 8 x																
15:24	5/25/22	Soil	1 Jar		CONF23 - 3' 8 9 x																
16:42																					
Addition	nal Instruc	tions: I	(ept on ic	e. Please CC:	cole.burton@wescominc.com.	shar harves	ter@wes	comi	inc co	nm a	chlo	v gic	Wong	00000							
	Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, ashley.giovengo@wescominc.com																				
						onally mislabellin	ng the sample	locatio	on,			Sample	es requir	ing thermal	preserv	ation m	ust be re	ceived	on Ice the day t	hey are sampl	ed or received
DESCRIPTION OF STATE	I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Sampled b																				
MA	VIAF	deser		5-210-2210):19 am Coule Ulla	dh	5-26	2	Time	:20	A	Rec	eived	on ice:		ab U		nly.			
- Hell	Receited by: (Signature) Date 5-26-22 Time 5-26-22 Time 17:000 T1 T2 T3																				
Relinquis	ed by: (Sign	ature)	Date	2.000	2:38 Received by: (Signature)	tu	Date / 5/27/	60	Time	38		AVG	Tom	p°c_C	34			= 1	19		
				Aqueous, O - Other			Container	Type	2: g - g	class.	p - pa	olv/pl	astic.	ag - amb	ner ol	100 14	VOA	_			
Note: Sar	nples are dis	carded 30	days after re	sults are reported	d unless other arrangements are made.	. Hazardous s	amples will	be ret	turned	to clie	ent or	dispo	sed of	at the cli	ent ex	nense	The	report	for the ana	lucie of the	above
samples i	Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



Project	Informatio
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Chain of Custody

Page	2	of	2	iveu

Client: K	aiser Fran	cis Oil Co)			Bill	То		-	-	La	b Us	e On	lv	_			-	TA	т		FDA D	rogram
THE RESERVE THE PERSON NAMED IN COLUMN 1	2117		A CONTRACTOR OF THE PARTY OF TH	7.22 Spill		Attention: Wescom In	С		Lab	WO#			1 doL		ber		1D	2D	3D		andard	CWA	SDWA
	Aanager:					Address: 1224 Standpi	pe Rd		Fá	205	148				000						X	CITA	JUVA
Address:	1224 Sta	ndpipe R	d			City, State, Zip: Carlsba	d, NM 88220								nd Me								RCRA
City, Stat	e, Zip: Ca	rlsbad, N	M 88220			Phone: 505-382-1211													4				110101
Phone:	505-382-1	211				Email: ashley.giovengo	@wescoming	c.com	135	53					1							State	
Email: a	shley.giov	engo@w	escoming	c.com					8	, 8015	н	_		0.			-				NMI CO	UT AZ	TX
Report d	ue by:								Q	40	807	8260	3010	300			N	7			V		
Time	Date	Matrix	No. of	Sample ID				Lab	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	1 1		BGDOC	8					
Sampled	Sampled	IVIGUIA	Containers	Sample 10				Number	DRC	GR	BTE	Š	Me	Chic			BGE	ВСООС				Remarks	
16:21	5/25/22	Soil	1 Jar			CONF25Wall - 1'	10	H									x						
Additio	nal Instruc	tions: I	Kept on i	ce, Please CC:	cole.	burton@wescominc.com	n, shar.harve	ster@we	scom	inc.c	om, a	shle	y.gio	ven	go@v	vesc	omir	nc.co	m				
date or tim	e of collection	is considere		ticity of this sample may be grounds for									packed	In ice	at an av	g temp	above	O but le			on ice the day subsequent da		ed or received
Relinquished by: (Signature) Date Time																							
Relinqui	ed by: (Sign	ature)	Date 5-	the same of the sa	7:3	8 Received by Signatur	Lute	5/27	62	10	:30	8	AVG	Ter	np °C	4	_				<u>13</u>		
Sample Ma	trix: 5 - Soll, S	d-Soller, Sg	- Sludge, A -	Aqueous, O - Other				Containe	r Typ	e: g -	glass,	p - p	oly/p	lastic	, ag -	ambe	r gla	ss, v	- VOA		4-5-17-16		
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above									above														



envirotech Inc.

Printed: 6/1/2022 4:09:36PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	05/27/22 12	::38		Work Order ID:	E205148
Phone:	(505) 382-1211	Date Logged In:	05/27/22 11	:55		Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	06/03/22 17	7:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location man	tch the COC	No				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comment	s/Resolution
Sample T	urn Around Time (TAT)			Γ			
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Sample #1	CONF15 - 3	.5 not received.
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C	Container	•	_				
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers'	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>oel</u>						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected? ollectors name?		Yes	_			
	Preservation		No				
_	the COC or field labels indicate the samples were price to the samples	reserved?	No				
	ample(s) correctly preserved?	ecservea.	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
	, does the COC specify which phase(s) is to be analy		NA				
		, 2001	11/2				
	act Laboratory	0	NT.				
	amples required to get sent to a subcontract laborato	-	No NA				
	subcontract laboratory specified by the client and in	i so who:	NA S	Subcontract Lab	: na		
Client In	<u>istruction</u>						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22

Spill

Work Order: E206034

Job Number: 21022-0001

Received: 6/4/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/10/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/10/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill

Workorder: E206034

Date Received: 6/4/2022 12:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/4/2022 12:00:00PM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 05.07.22 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Dominated.
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/10/22 16:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF26 - 3'	E206034-01A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF27 - 2.5'	E206034-02A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF28 - 2'	E206034-03A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF29 - 2'	E206034-04A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF30 - 3'	E206034-05A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF31 - 2'	E206034-06A	Soil	06/01/22	06/04/22	Glass Jar, 4 oz.
CONF32 - 3.5'	E206034-07A	Soil	06/02/22	06/04/22	Glass Jar, 4 oz.
CONF33 - 2.5'	E206034-08A	Soil	06/02/22	06/04/22	Glass Jar, 4 oz.
CONF34 - 3'	E206034-09A	Soil	06/02/22	06/04/22	Glass Jar, 4 oz.

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/10/2022 4:14:18PM

CONF26 - 3' E206034-01

		E206034-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
Surrogate: n-Nonane		85.2 %	50-200	06/09/22	06/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2224034
Chloride	ND	20.0	1	06/08/22	06/09/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/10/2022 4:14:18PM

CONF27 - 2.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
Surrogate: n-Nonane		116 %	50-200	06/09/22	06/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: KL		Batch: 2224034
Chloride	24.4	20.0	1	06/08/22	06/09/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/10/2022 4:14:18PM

CONF28 - 2'

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		lyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
Surrogate: 4-Bromochlorobenzene-PID		87.2 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
Surrogate: n-Nonane		105 %	50-200	06/09/22	06/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: KL		Batch: 2224034
Chloride	239	20.0	1	06/08/22	06/09/22	•



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/10/2022 4:14:18PM

CONF29 - 2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
Surrogate: 4-Bromochlorobenzene-PID		86.2 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.2 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
Surrogate: n-Nonane		110 %	50-200	06/09/22	06/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2224034
Chloride	388	20.0	1	06/08/22	06/09/22	

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/10/2022 4:14:18PM

CONF30 - 3'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
Surrogate: 4-Bromochlorobenzene-PID		85.8 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/09/22	
Surrogate: n-Nonane		113 %	50-200	06/09/22	06/09/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: KL		Batch: 2224034
Chloride	181	20.0	1	06/08/22	06/09/22	

Chloride

Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/10/2022 4:14:18PM

CONF31 - 2'

E206034-06							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2224029	
Benzene	ND	0.0250	1	06/08/22	06/10/22		
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22		
Toluene	ND	0.0250	1	06/08/22	06/10/22		
o-Xylene	ND	0.0250	1	06/08/22	06/10/22		
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22		
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22		
Surrogate: 4-Bromochlorobenzene-PID		85.7 %	70-130	06/08/22	06/10/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2224029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	70-130	06/08/22	06/10/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2224049	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22		
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22		
Surrogate: n-Nonane		112 %	50-200	06/09/22	06/10/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: KL		Batch: 2224034	

20.0

68.2

06/08/22

06/09/22



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/10/2022 4:14:18PM

CONF32 - 3.5'

		D 4:				
	D 1:	Reporting	D'1 - '	D 1		NT -
Analyte	Result	Limit	Dilutior	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
Surrogate: 4-Bromochlorobenzene-PID		86.8 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
Surrogate: n-Nonane		111 %	50-200	06/09/22	06/10/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2224034
Chloride	56.0	20.0	1	06/08/22	06/09/22	•



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/10/2022 4:14:18PM

CONF33 - 2.5'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
o,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
Surrogate: 4-Bromochlorobenzene-PID		84.1 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
Surrogate: n-Nonane		114 %	50-200	06/09/22	06/10/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: KL		Batch: 2224034
Chloride	97.0	20.0	1	06/08/22	06/09/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/10/2022 4:14:18PM

CONF34 - 3'

		D				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Limit	Dilution	Trepareu	Allalyzed	rvotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2224029
Benzene	ND	0.0250	1	06/08/22	06/10/22	
Ethylbenzene	ND	0.0250	1	06/08/22	06/10/22	
Toluene	ND	0.0250	1	06/08/22	06/10/22	
o-Xylene	ND	0.0250	1	06/08/22	06/10/22	
p,m-Xylene	ND	0.0500	1	06/08/22	06/10/22	
Total Xylenes	ND	0.0250	1	06/08/22	06/10/22	
Surrogate: 4-Bromochlorobenzene-PID		83.6 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2224029
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/08/22	06/10/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.8 %	70-130	06/08/22	06/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2224049
Diesel Range Organics (C10-C28)	ND	25.0	1	06/09/22	06/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/09/22	06/10/22	
Surrogate: n-Nonane		113 %	50-200	06/09/22	06/10/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2224034
Chloride	ND	20.0		06/08/22	06/09/22	·



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/10/2022 4:14:18PM

Carlsbad NM, 88220		Project Manager:		shley Gioveng	o				6/10/2022 4:14:18PM
		Volatile O	Volatile Organics by EPA 8021B						Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2224029-BLK1)							Prepared: 0	6/08/22 Aı	nalyzed: 06/10/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			
LCS (2224029-BS1)							Prepared: 0	6/08/22 Aı	nalyzed: 06/10/22
Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.5	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
p-Xylene	4.90	0.0250	5.00		98.0	70-130			
p,m-Xylene	9.74	0.0500	10.0		97.4	70-130			
Total Xylenes	14.6	0.0250	15.0		97.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.8	70-130			
LCS Dup (2224029-BSD1)							Prepared: 0	6/08/22 Aı	nalyzed: 06/10/22
Benzene	5.14	0.0250	5.00		103	70-130	1.24	20	
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130	1.20	20	
Toluene	4.95	0.0250	5.00		99.1	70-130	1.20	20	
o-Xylene	4.84	0.0250	5.00		96.7	70-130	1.30	20	
p,m-Xylene	9.62	0.0500	10.0		96.2	70-130	1.24	20	
Total Xylenes	14.5	0.0250	15.0		96.4	70-130	1.26	20	



Surrogate: 1-Chloro-4-fluorobenzene-FID

7.38

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/10/2022 4:14:18PM

Carlsbad NM, 88220		Project Manage		o22-0001 shley Gioveng	go			6/1	0/2022 4:14:18PM
	Nor	halogenated	Organics	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2224029-BLK1)							Prepared: 0	6/08/22 Anal	yzed: 06/10/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			
LCS (2224029-BS2)							Prepared: 0	6/08/22 Anal	yzed: 06/10/22
Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			
LCS Dup (2224029-BSD2)							Prepared: 0	6/08/22 Anal	yzed: 06/10/22
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.5	70-130	1.94	20	

70-130



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	•
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/10/2022 4:14:18PM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go				6/10/2022 4:14:18PM
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2224049-BLK1)							Prepared: 0	6/09/22 A	nalyzed: 06/09/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	51.5		50.0		103	50-200			
LCS (2224049-BS1)							Prepared: 0	6/09/22 A	nalyzed: 06/09/22
Diesel Range Organics (C10-C28)	503	25.0	500		101	38-132			
urrogate: n-Nonane	49.6		50.0		99.2	50-200			
Matrix Spike (2224049-MS1)				Source:	E206034-	07	Prepared: 0	6/09/22 A	nalyzed: 06/09/22
Diesel Range Organics (C10-C28)	410	25.0	500	ND	82.1	38-132			
urrogate: n-Nonane	26.3		50.0		52.6	50-200			
Matrix Spike Dup (2224049-MSD1)				Source:	E206034-	07	Prepared: 0	6/09/22 A	nalyzed: 06/09/22
Diesel Range Organics (C10-C28)	349	25.0	500	ND	69.8	38-132	16.1	20	
'urrogate: n-Nonane	51.0		50.0		102	50-200			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		Red Hills Facili	ty Pad 5 0:	5.07.22 S _I	oill		Reported:
Carlsbad NM, 88220		Project Manager		Ashley Gioveng	go				6/10/2022 4:14:18PM
		Anions	by EPA	300.0/9056	1				Analyst: KL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2224034-BLK1)							Prepared: 0	6/08/22 A	nalyzed: 06/09/22
Chloride	ND	20.0							
LCS (2224034-BS1)							Prepared: 0	6/08/22 A	nalyzed: 06/10/22
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2224034-MS1)				Source:	E206032-	01	Prepared: 0	6/08/22 A	nalyzed: 06/09/22
Chloride	291	200	250	ND	116	80-120			
Matrix Spike Dup (2224034-MSD1)				Source:	E206032-	01	Prepared: 0	6/08/22 A	nalyzed: 06/09/22
Chloride	256	200	250	ND	102	80-120	12.7	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/10/22 16:14

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Pa	ige_	of
EF	A Pr	ogram
	VA	SDWA
		RCRA
Sta	ite	
UT	AZ	TX
Rem	arks	

Client: V Aicas Control	of Custoc	ıy	,									,	Page	of
Project: Red Hills Facility Red 5 05.07.72 Attention: Wescom, Inc. Project Manager: Ashley Giovenso Address: 1224 Stendage Co.		Lab	WO#			e On					TA		EPAF	Program
Address: 177 H (tanda) pe P	<u>d</u> :	Eá	206	03			Number	0001	1D	2D	3D	Standa	rd CWA	SDWA
City, State, Zip Carls bad, Nm 88220 Phone: (505) 382-1211	88720					Analy	sis and	Metho	d			17		Dona
Phone: 505 - 282 - 12 11	,								T		ΓŤ	1	-	RCRA
mail: ashley: giovensor Wescomine Report due by: Email: ashley: giovensor wescomine: com		015	015									1	State	
		8 yd C	by 8	021	097	10	0.00		NM			NM	CO UT AZ	XTX
Sampled Sampled Matrix No. of Containers Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC N	хт эрдэв		*	Remark	s
7:330601 Sil 1; ar CONF 26-3'		,				-			1	E E				
9:4006101 50;1 1; Nr CONFZ7 - 2.51	2								V					
09:4906101 Soil Bar CONF28-21	3							+	1			-		
W:11 06/01 5011 13ar CONF29-2'	4	*							X	-		i		
423 06/01 Sil 1jar CONF30-3'	5								X					
13:55 06/01 50:1 1jar CONF 31-21	6								X					
1535 Oblo250:1 1jar CONF32-3.51	7								7					
1549 06102 Soil 1jer CONP33-2.5'	8								7			1		
1610 06/02 Soil 1; ET CONF34-3:	9								4	-		1		
Additional Instructions:												1		
		-			-									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabed date or time of collection is considered fraud and may be grown to be a line of collection is considered fraud and may be grown to be a line of collection is considered fraud and may be grown to be a line of collection is considered fraud and may be grown to be a line of collection is considered fraud and may be grown to be a line of collection in the line of collection is considered fraud and may be grown to be a line of collection in the line of collection is considered fraud and may be grown to be a line of collection in the line of collection is considered fraud and may be grown to be a line of collection in the line of collection is considered fraud and may be grown to be a line of collection in the line of collection is considered fraud and may be grown to	elling the same	ple Inc	ation	_		Sample	se romulal.	n the						
Sampled by						packer	In Ice at	an avg tem	b spove busselve	o but le	ess than I	ceived on ice ti 6 °C on subsequ	he day they are sam	pled or received
ACCUMANTAL STATE OF THE STATE O	Date	.0	Time	1 . /	1.1				L		se On			
Time Regived by (Signature)				7.0	201	Rec	eived (on ice:	0)/ N				
Relinquished by: (Signature) Date Time Received by: (Signature)	Date	22	Time	V.C	U	<u>T1</u>			T2			<u>TB</u>		
Sample Matrix: S – Soil, Sd – Solid, Sg – Sludge, A – Aqueous, O – Other	6					AVG	Temp	°C	1_					
Note: Samples are discarded 30 days after regular are	Containe	r Typ	e: g -	glass,	p - p	oly/p	astic, a	ig - amb	er gla	SS, V-	- VOA			
samples is applicable only to those samples received by the laboratory with this COC. The liability of the laborator	ry is limited	to the	eamo	unt pa	ulent	or disp	posed o	rat the o	client e	xpens	e. The	a report for	the analysis of	the above

Printed: 6/7/2022 11:37:46AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	06/04/22	12:00	Work Order ID:	E206034
Phone:	(505) 382-1211	Date Logged In:	06/06/22	09:59	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	06/10/22	17:00 (4 day TAT)		
Chain of	Custody (COC)					
	he sample ID match the COC?		Yes			
	he number of samples per sampling site location ma	tch the COC	Yes			
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: <u>UPS</u>		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Ill samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi	•	Yes		Comment	ts/Resolution
Sample 7	<u> Furn Around Time (TAT)</u>					
	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
9. Was th	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?					
	, were custody/security seals intact?		No			
•			NA			
	ne sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
	<u>Container</u>	• –	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La		ners conceica.	105			
	field sample labels filled out with the minimum info	ormation:				
	ample ID?	mation.	Yes			
	Date/Time Collected?		Yes			
C	Collectors name?		No			
Sample 1	Preservation					
21. Does	the COC or field labels indicate the samples were p	reserved?	No			
22. Are s	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved r	netals?	No			
Multipha	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha	se?	No			
	, does the COC specify which phase(s) is to be anal		NA			
		,	1421			
	ract Laboratory	9	No			
	amples required to get sent to a subcontract laborator subcontract laboratory specified by the client and i	-	No NA	Subcontract Lab: UPS		
Client I	<u>nstruction</u>					
						_

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22

Spill

Work Order: E206050

Job Number: 21022-0001

Received: 6/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/14/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/14/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill

Workorder: E206050

Date Received: 6/8/2022 10:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/8/2022 10:00:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 05.07.22 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

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Raina Schwanz

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Technical Representative/Client Services

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Donoutoda
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/22 16:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF35 - 3.5'	E206050-01A	Soil	06/03/22	06/08/22	Glass Jar, 4 oz.
CONF36 - 3'	E206050-02A	Soil	06/03/22	06/08/22	Glass Jar, 4 oz.
CONF37 - 3.5'	E206050-03A	Soil	06/03/22	06/08/22	Glass Jar, 4 oz.
CONF38 - 4'	E206050-04A	Soil	06/03/22	06/08/22	Glass Jar, 4 oz.
CONF39 - 2.5'	E206050-05A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.
CONF40 - 4'	E206050-06A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.
CONF41 - 3'	E206050-07A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.
CONF42Wall - 1'	E206050-08A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.
CONF43Wall - 1'	E206050-09A	Soil	06/06/22	06/08/22	Glass Jar, 4 oz.

Kaiser Francis Oil	Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd		Project Number:	21022-0001	Reported:
Carlsbad NM, 8822	20	Project Manager:	Ashley Giovengo	6/14/2022 4:24:49PM

CONF35 - 3.5'

E2	06	05	N-	N 1
- 144	vv	UJ	v-	V.

	2200000 01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2224085
ND	0.0250	1	06/10/22	06/13/22	
ND	0.0250	1	06/10/22	06/13/22	
ND	0.0250	1	06/10/22	06/13/22	
ND	0.0250	1	06/10/22	06/13/22	
ND	0.0500	1	06/10/22	06/13/22	
ND	0.0250	1	06/10/22	06/13/22	
	91.8 %	70-130	06/10/22	06/13/22	
mg/kg	mg/kg	Analyst: RKS			Batch: 2224085
ND	20.0	1	06/10/22	06/13/22	
	89.8 %	70-130	06/10/22	06/13/22	
mg/kg	mg/kg	Analyst: KM			Batch: 2225001
ND	25.0	1	06/13/22	06/13/22	
ND	50.0	1	06/13/22	06/13/22	
	98.4 %	50-200	06/13/22	06/13/22	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2224072
306	20.0	1	06/10/22	06/13/22	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0 89.8 % mg/kg MD 25.0 ND 50.0 98.4 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 Mg/kg mg/kg Analy ND 20.0 1 89.8 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 98.4 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 06/10/22 ND 0.0250 1 06/10/22 ND 0.0250 1 06/10/22 ND 0.0500 1 06/10/22 ND 0.0250 1 06/10/22 ND 0.0250 1 06/10/22 mg/kg mg/kg Analyst: RKS ND 20.0 1 06/10/22 mg/kg mg/kg Analyst: KM ND 25.0 1 06/13/22 ND 50.0 1 06/13/22 ND 50.0 1 06/13/22 mg/kg mg/kg Analyst: RAS	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 06/10/22 06/13/22 ND 0.0250 1 06/10/22 06/13/22 ND 0.0250 1 06/10/22 06/13/22 ND 0.0500 1 06/10/22 06/13/22 ND 0.0250 1 06/10/22 06/13/22 ND 0.0250 1 06/10/22 06/13/22 MD 0.0250 1 06/10/22 06/13/22 Mg/kg Mg/kg Analyst: RKS ND 20.0 1 06/10/22 06/13/22 Mg/kg mg/kg Analyst: KM ND 25.0 1 06/13/22 06/13/22 ND 50.0 1 06/13/22 06/13/22 ND 50.0 1 06/13/22 06/13/22 Mg/kg Mg/kg Analyst: RAS



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/14/2022 4:24:49PM

CONF36 - 3'

E206050-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
Surrogate: n-Nonane		96.7 %	50-200	06/13/22	06/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2224072
Chloride	150	20.0	1	06/10/22	06/13/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2022 4:24:49PM

CONF37 - 3.5'

E206050-03

		Donoutino				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
Surrogate: n-Nonane		106 %	50-200	06/13/22	06/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2224072



Anions by EPA 300.0/9056A

Chloride

Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2022 4:24:49PM

CONF38 - 4'

		E206050-04					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2224085
Benzene	ND	0.0250	1	[06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	l	06/10/22	06/13/22	
Toluene	ND	0.0250	1	[06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	l	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	l	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	1	06/10/22	06/13/22	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130		06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	06/10/22	06/13/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130		06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	l	06/13/22	06/13/22	
Surrogate: n-Nonane		108 %	50-200		06/13/22	06/13/22	

mg/kg

20.0

mg/kg

530

Analyst: RAS

06/10/22

06/13/22



Batch: 2224072

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2022 4:24:49PM

CONF39 - 2.5'

E206050-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
Surrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130	06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	Anal	Analyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	Anal	Analyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
Surrogate: n-Nonane		116 %	50-200	06/13/22	06/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2224072
amons by Elitection / Octob						



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2022 4:24:49PM

CONF40 - 4'

E206050-06										
		Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes				
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2224085				
Benzene	ND	0.0250	1	06/10/22	06/13/22					
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22					
Toluene	ND	0.0250	1	06/10/22	06/13/22					
o-Xylene	ND	0.0250	1	06/10/22	06/13/22					
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22					
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22					
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	06/10/22	06/13/22					
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2224085				
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22					
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	70-130	06/10/22	06/13/22					
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2225001				
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22					
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22					
Surrogate: n-Nonane		108 %	50-200	06/13/22	06/13/22					
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2224072				
Chloride	ND	20.0	1	06/10/22	06/13/22					



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2022 4:24:49PM

CONF41 - 3'

E206050-07											
Reporting											
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes					
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2224085					
Benzene	ND	0.0250	1	06/10/22	06/13/22						
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22						
Toluene	ND	0.0250	1	06/10/22	06/13/22						
o-Xylene	ND	0.0250	1	06/10/22	06/13/22						
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22						
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22						
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	06/10/22	06/13/22						
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2224085					
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22						
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	06/10/22	06/13/22						
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	Analyst: KM		Batch: 2225001					
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22						
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22						
Surrogate: n-Nonane		105 %	50-200	06/13/22	06/13/22						
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2224072					
Chloride	377	20.0	1	06/10/22	06/13/22						



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/14/2022 4:24:49PM

CONF42Wall - 1'

E206050-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2224085
Benzene	ND	0.0250	1	06/10/22	06/13/22	
Ethylbenzene	ND	0.0250	1	06/10/22	06/13/22	
Toluene	ND	0.0250	1	06/10/22	06/13/22	
o-Xylene	ND	0.0250	1	06/10/22	06/13/22	
p,m-Xylene	ND	0.0500	1	06/10/22	06/13/22	
Total Xylenes	ND	0.0250	1	06/10/22	06/13/22	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2224085
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/10/22	06/13/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	06/10/22	06/13/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2225001
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/22	06/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/22	06/13/22	
Surrogate: n-Nonane		101 %	50-200	06/13/22	06/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2224072
Chloride	32.7	20.0	1	06/10/22	06/13/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/14/2022 4:24:49PM

CONF43Wall - 1'

E206050-09

	Reporting				
Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2224085
ND	0.0250	1	06/10/22	06/13/22	
ND	0.0250	1	06/10/22	06/13/22	
ND	0.0250	1	06/10/22	06/13/22	
ND	0.0250	1	06/10/22	06/13/22	
ND	0.0500	1	06/10/22	06/13/22	
ND	0.0250	1	06/10/22	06/13/22	
	90.9 %	70-130	06/10/22	06/13/22	
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2224085
ND	20.0	1	06/10/22	06/13/22	
	89.9 %	70-130	06/10/22	06/13/22	
mg/kg	mg/kg	Ana	alyst: KM		Batch: 2225001
ND	25.0	1	06/13/22	06/13/22	
ND	50.0	1	06/13/22	06/13/22	
	99.4 %	50-200	06/13/22	06/13/22	
mg/kg	mg/kg	Analyst: RAS		Batch: 2224072	
mg/kg	mg/kg		,		Buttern 222 10 / 2
	mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 89.9 % mg/kg MD 20.0 89.9 % mg/kg ND 25.0 ND 50.0 99.4 %	Result Limit Dilution mg/kg mg/kg And ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 MB/kg mg/kg And MB/kg mg/kg And MB/kg mg/kg And ND 25.0 1 ND 50.0 1 99.4 % 50-200	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 06/10/22 ND 0.0250 1 06/10/22 ND 0.0250 1 06/10/22 ND 0.0500 1 06/10/22 ND 0.0250 1 06/10/22 ND 0.0250 1 06/10/22 mg/kg 70-130 06/10/22 mg/kg mg/kg Analyst: RKS ND 20.0 1 06/10/22 mg/kg mg/kg Analyst: KM ND 25.0 1 06/13/22 ND 50.0 1 06/13/22 99.4 % 50-200 06/13/22	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 06/10/22 06/13/22 ND 0.0500 1 06/10/22 06/13/22 ND 0.0250 1 06/10/22 06/13/22 MD 0.0250 1 06/10/22 06/13/22 mg/kg mg/kg Analyst: RKS ND 20.0 1 06/10/22 06/13/22 mg/kg mg/kg Analyst: KM ND 25.0 1 06/13/22 06/13/22 ND 50.0 1 06/13/22 06/13/22 ND 50.0 1 06/13/22 06/13/22



Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2022 4:24:49PM

Carlsbad NM, 88220		Project Manager		o22-0001 shley Gioveng	go			6	5/14/2022 4:24:49PM	
Volatile Organics by EPA 8021B Analyst: RKS										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2224085-BLK1)]	Prepared: 0	6/10/22 An	alyzed: 06/13/22	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.1	70-130				
LCS (2224085-BS1)]	Prepared: 0	6/10/22 An	alyzed: 06/13/22	
Benzene	5.41	0.0250	5.00		108	70-130				
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130				
Toluene	5.21	0.0250	5.00		104	70-130				
o-Xylene	5.09	0.0250	5.00		102	70-130				
o,m-Xylene	10.1	0.0500	10.0		101	70-130				
Total Xylenes	15.2	0.0250	15.0		101	70-130				
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130				
LCS Dup (2224085-BSD1)						1	Prepared: 0	6/10/22 An	alyzed: 06/14/22	
Benzene	5.34	0.0250	5.00		107	70-130	1.34	20		
Ethylbenzene	4.84	0.0250	5.00		96.8	70-130	1.15	20		
Toluene	5.15	0.0250	5.00		103	70-130	1.29	20		
o-Xylene	5.03	0.0250	5.00		101	70-130	1.15	20		
p,m-Xylene	9.97	0.0500	10.0		99.7	70-130	1.12	20		
Total Xylenes	15.0	0.0250	15.0		100	70-130	1.13	20		



Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 5 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/14/2022 4:24:49PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	50				6/14/2022 4:24:49PM	
Nonhalogenated Organics by EPA 8015D - GRO An										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2224085-BLK1)							Prepared: 0	6/10/22	Analyzed: 06/13/22	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.3	70-130				
LCS (2224085-BS2)							Prepared: 0	6/10/22	Analyzed: 06/14/22	
Gasoline Range Organics (C6-C10)	54.8	20.0	50.0		110	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130				
LCS Dup (2224085-BSD2)							Prepared: 0	6/10/22	Analyzed: 06/14/22	
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130	4.04	20		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130				

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo6/14/2022 4:24:49PM

Carisbad NM, 88220		Project Manage	r: As	niey Gioveng	go				6/14/2022 4:24:49PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2225001-BLK1)							Prepared: 0	6/13/22 A	nalyzed: 06/13/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.7		50.0		101	50-200			
LCS (2225001-BS1)							Prepared: 0	6/13/22 A	nalyzed: 06/13/22
Diesel Range Organics (C10-C28)	461	25.0	500		92.3	38-132			
urrogate: n-Nonane	52.1		50.0		104	50-200			
Matrix Spike (2225001-MS1)				Source:	E206050-0	04	Prepared: 0	6/13/22 A	nalyzed: 06/13/22
Diesel Range Organics (C10-C28)	469	25.0	500	ND	93.7	38-132			
urrogate: n-Nonane	53.8		50.0		108	50-200			
Matrix Spike Dup (2225001-MSD1)				Source:	E206050-0	04	Prepared: 0	6/13/22 A	nalyzed: 06/13/22
Diesel Range Organics (C10-C28)	472	25.0	500	ND	94.4	38-132	0.717	20	
urrogate: n-Nonane	53.4		50.0		107	50-200			

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	2	Red Hills Facili 21022-0001 Ashley Gioveng	•	5.07.22 S _l	oill		Reported: 6/14/2022 4:24:49PM	
Anions by EPA 300.0/9056A Analyst: RAS										
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes	
Blank (2224072-BLK1)							Prepared: 0	6/10/22 A	Analyzed: 06/13/22	
Chloride	ND	20.0								
LCS (2224072-BS1)							Prepared: 0	6/10/22 A	Analyzed: 06/13/22	
Chloride	241	20.0	250		96.5	90-110				
Matrix Spike (2224072-MS1)				Source:	E206050-	01	Prepared: 0	6/10/22 A	Analyzed: 06/13/22	
Chloride	540	20.0	250	306	93.3	80-120				
Matrix Spike Dup (2224072-MSD1)				Source:	E206050-	01	Prepared: 0	6/10/22 A	Analyzed: 06/13/22	
Chloride	545	20.0	250	306	95.4	80-120	0.943	20		

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/14/22 16:24

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

PO: 35394

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acility Pad 5 (shley Gioven) dpipe Rd (sbad, NM 88) 11 (ngo@wescon) Matrix (Contai) Soil 1 Ji Soil 1 Ji	220 sinc.com f Sample ID	Attention: Wescom Inc Address: 1224 Standpipe Rd City, State, Zip: Carlsbad, NM 8 Phone: 505-382-1211 Email: ashley.giovengo@wesco		C/ORO by 8015	GRO/DRO by 8015 #)5C	8260	Analys	22	ber 1-000) nd Metho	d WN	2D	3D	Standard x NM CO	State UT AZ	RCRA
dpipe Rd sbad, NM 88 11 ngo@wescon Matrix No. Contai Soil 1 Ji Soil 1 Ji	220 ninc.com f Sample ID	City, State, Zip: Carlsbad, NM 8 Phone: 505-382-1211 Email: ashley.giovengo@wesco	ominc.com Lab	Εάν	66)5C	8260	Analys	sis an		d WN	×				
sbad, NM 88 11 ngo@wescon Matrix No. Contai Soil 1 Ji Soil 1 Ji	Sample ID	Phone: 505-382-1211 Email: ashley.giovengo@wesco	ominc.com Lab	DRO/ORO by 8015	RO/DRO by 8015	þ	8260		0	nd Metho	MN	¥		NM CO		
11 ngo@wescon Matrix No. Contai Soil 1 Ji Soil 1 Ji	Sample ID	Email: ashley.giovengo@wesco	Lab	DRO/ORO by 8015	RO/DRO by 8015	þ	by 8260	ls 6010	de 300.0			X		NM CO		TX
Matrix No. Soil 1 Ji Soil 1 Ji	f Sample ID	CONF35 - 3.5'	Lab	DRO/ORO by 8015	RO/DRO by 8015	þ	by 8260	ls 6010	de 300.0			¥		NM CO		TX
Matrix No. Contain Soil 1 Ji Soil 1 Ji	f Sample ID			DRO/ORO by 80	RO/DRO by 80	þ	by 8260	ls 6010	de 300.0			¥		NM CO	UT AZ	TX
Soil 1 J	ar			DRO/ORO b	RO/DRO b	þ	by 826	ls 6010	de 30			×				V
Soil 1 J	ar			DRO/OF	RO/DF	Q	by	S	Ö		6.3			×		
Soil 1 J	ar .				0	BTEX	VOC by	Meta	Chlori		верос	BGDOC			Remarks	
		CONF36 - 3'	The State of the S								х					
Soil 1 J			2								х					
	nr	CONF37 - 3.5'	3								х					
Soil 1 J	ir	CONF 38 - 4'	4								х					
Soil 1 J	ar	CONF39 - 2.5'	5								х					
Soil 1 J	ar	CONF40 - 4'	6								х					
Soil 1 J	ir	CONF41 - 3'	7						0.17		х					
Soil 1 J	ir	CONF42Wall - 1'	8								х					
Soil 1 J	ar	CONF43Wall - 1'	9								х					
											х					
ons: Kept o	n ice, Please CC:	cole.burton@wescominc.com, shar.h	arvester@wes	comi	nc.cc	m, as	shle	y.giov	/eng	o@wes	comir	ıc.co	m	1		
			slabelling the sample	e locatio	on,											ed or receive
ure)	A CONTRACTOR OF THE PARTY OF TH	2:16p Received by: (Signature)	appl Date	7-2	Time	12	;)	Recei	ived	on ice:				У		
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ure)	Date Time	Received by: (Signature)	Date		Time			AVG :	Tem	p°c 4	1					
Solid, Sg - Sludge,	A - Aqueous, O - Other		Containe	r Type	: g - g	lass, p	_		-		er gla	ss, v -	VOA			
o hee	Soil 1 Ja Soil 1 Ja Soil 1 Ja sons: Kept on e validity and authonsidered fraud a re) Te) Te) Tolorid, Sg - Sludge, A ded 30 days after	Soil 1 Jar Soil 1	Soil 1 Jar CONF41 - 3' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Time Received by: (Signature) Time Received by: (Signature) Time Received by: (Signature)	Soil 1 Jar CONF41 - 3' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Ons: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wesce validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample onsidered fraud and may be grounds for legal action. Tele Date Time Received by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date Date Time Received by: (Signature) Date Containe	Soil 1 Jar CONF41 - 3' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Ons: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.evalidity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location on sidered fraud and may be grounds for legal action. Time Received by: (Signature) Date Date Time Received by: (Signature) Date Date Time Received by: (Signature) Date Date Container Type Container Type Container Type	Soil 1 Jar CONF41 - 3' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Ons: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com e validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, onsidered fraud and may be grounds for legal action. Time Received by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Container Type: g - g	Soil 1 Jar CONF40 - 4' Soil 1 Jar CONF41 - 3' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Ons: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, as evalidity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, considered fraud and may be grounds for legal action. Time Received by: (Signature) Date Time Received by: (Signature) Date Time Received by: (Signature) Date Time Container Type: g - glass, problems, probability and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, considered fraud and may be grounds for legal action. Received by: (Signature) Date Time Container Type: g - glass, probability and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, considered fraud and may be grounds for legal action. Received by: (Signature) Date Time Container Type: g - glass, probability and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, considered fraud and may be grounds for legal action. Received by: (Signature) Date Time Container Type: g - glass, probability and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, considered fraud and may be grounds for legal action. Sampled by: Time Container Type: g - glass, probability and authenticity of this sample location, considered fraud and may be grounds for legal action. Container Type: g - glass, probability and authenticity of this sample location, considered fraud and may be grounds for legal action.	Soil 1 Jar CONF41 - 3' 7	Soil 1 Jar CONF41 - 3' 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Soil 1 Jar CONF41 - 3' 7	Soil 1 Jar CONF40 - 4' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF42Wall - 1' Soil 1	Soil 1 Jar CONF41 - 3'	Soil 1 Jar CONF41 - 3'	Soil 1 Jar CONF40 - 4' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF42Wall - 1' Soil 1 Jar CONF43Wall - 1' Soil 1 Jar CONF42Wall - 1' A K CONF43Wall - 1' Soil 1 Jar CONF42Wall - 1' A K CONF43Wall Soil 1 Jar CONF41 - 3'	Soil 1 Jar CONF41 - 3' 7	



envirotech Inc.

Printed: 6/9/2022 10:51:05AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	06/08/22	10:00		Work Order ID:	E206050
Phone:	(505) 382-1211	Date Logged In:	06/08/22	11:21		Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	06/14/22	17:00 (4 day TAT)			
~	G (GO G)						
	Custody (COC)						
	ne sample ID match the COC?	4-1-41 COC	Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>U</u>	<u>JPS</u>		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi	•	Yes			Comments	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples arminutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes				
Sample C		<u>-</u>	_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	• • • • • • • • • • • • • • • • • • • •	ners conceted:	103				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?	omation.	Yes				
	ate/Time Collected?		Yes	l			
C	ollectors name?		No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved r	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	ise?	No				
	, does the COC specify which phase(s) is to be anal		NA				
		~	1471				
-	act Laboratory	9	Ma				
	amples required to get sent to a subcontract laborator	-	No NA	61 4 41 1			
29. was a	subcontract laboratory specified by the client and i	1 so who?	NA	Subcontract Lab	o: na		
Client In	<u>istruction</u>						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22

Spill

Work Order: E206085

Job Number: 21022-0001

Received: 6/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/22/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/22/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill

Workorder: E206085

Date Received: 6/14/2022 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2022 1:00:00PM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 05.07.22 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

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Cell: 505-320-4759

ljarboe@envirotech-inc.com

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Office: 505-421-LABS(5227)

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Sample Summary

Kaiser Francis Oil Compar	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Donoutoda
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/22/22 15:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF44-2.5'	E206085-01A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF45-1'	E206085-02A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF46-1'	E206085-03A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF47-1'	E206085-04A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF48-1'	E206085-05A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF49-1'	E206085-06A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF50-1.5'	E206085-07A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF51-1'	E206085-08A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF52Wall5'	E206085-09A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.
CONF53Wall-05'	E206085-10A	Soil	06/10/22	06/14/22	Glass Jar, 4 oz.



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/22/2022 3:45:36PM

CONF44-2.5'

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2225049
Benzene	ND	0.0250		1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250		1	06/15/22	06/20/22	
Toluene	ND	0.0250		1	06/15/22	06/20/22	
o-Xylene	ND	0.0250		1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500		1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250		1	06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		95.6 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		103 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		95.6 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		103 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0		1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/17/22	06/20/22	
Surrogate: n-Nonane		91.9 %	50-200		06/17/22	06/20/22	
1	mg/kg	mg/kg		Analyst:	KL		Batch: 2225047
Anions by EPA 300.0/9056A	mg/kg	mg/kg		1 mary ser			



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2023:45:36PM

CONF45-1'

		Reporting					
Analyte	Result	Limit	Dilut	tion 1	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2225049
Benzene	ND	0.0250	1	. (06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1		06/15/22	06/20/22	
Toluene	ND	0.0250	1		06/15/22	06/20/22	
o-Xylene	ND	0.0250	1		06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1	. (06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1	. (06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		95.0 %	70-130	-	06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130	(06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	. (06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		95.0 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	(06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	. (06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	. (06/17/22	06/20/22	
Surrogate: n-Nonane		108 %	50-200		06/17/22	06/20/22	
	mg/kg	mg/kg	A	Analyst: KL			Batch: 2225047
Anions by EPA 300.0/9056A	mg ng	1116,116		,			Buttern 2220 0 17



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2022 3:45:36PM

CONF46-1'

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2225049
Benzene	ND	0.0250		1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250		1	06/15/22	06/20/22	
Toluene	ND	0.0250		1	06/15/22	06/20/22	
o-Xylene	ND	0.0250		1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500		1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	·	1	06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		95.0 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		95.0 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0		1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/17/22	06/20/22	
Surrogate: n-Nonane		133 %	50-200		06/17/22	06/20/22	
Aniona by EDA 200 0/0056 A	mg/kg	mg/kg		Analyst:	KL		Batch: 2225047
Anions by EPA 300.0/9056A		88					



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2022 3:45:36PM

CONF47-1'

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2225049
Benzene	ND	0.0250		1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250		1	06/15/22	06/20/22	
Toluene	ND	0.0250		1	06/15/22	06/20/22	
o-Xylene	ND	0.0250		1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500		1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250	·	1	06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		94.7 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		94.7 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0		1	06/17/22	06/20/22	_
Oil Range Organics (C28-C36)	ND	50.0		1	06/17/22	06/20/22	
Surrogate: n-Nonane		107 %	50-200		06/17/22	06/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2225047
Chloride	143	20.0		1	06/15/22	06/17/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2023:45:36PM

CONF48-1'

Batch: 2225049 0/22 0/22 0/22 0/22 0/22
Batch: 2225049 0/22 0/22 0/22 0/22 0/22
0/22 0/22 0/22 0/22
0/22 0/22 0/22
0/22 0/22 0/22
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Batch: 2225047
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Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2022 3:45:36PM

CONF49-1'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY	7		Batch: 2225049
Benzene	ND	0.0250	1		06/15/22	06/20/22	
Ethylbenzene	ND	0.0250	1		06/15/22	06/20/22	
Toluene	ND	0.0250	1		06/15/22	06/20/22	
o-Xylene	ND	0.0250	1		06/15/22	06/20/22	
p,m-Xylene	ND	0.0500	1		06/15/22	06/20/22	
Total Xylenes	ND	0.0250	1		06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		96.4 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY	7		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		96.4 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1		06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1		06/17/22	06/20/22	
Surrogate: n-Nonane		103 %	50-200		06/17/22	06/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: Kl	L		Batch: 2225047



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2022 3:45:36PM

CONF50-1.5'

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2225049
Benzene	ND	0.0250		1	06/15/22	06/20/22	
Ethylbenzene	ND	0.0250		1	06/15/22	06/20/22	
Toluene	ND	0.0250		1	06/15/22	06/20/22	
o-Xylene	ND	0.0250		1	06/15/22	06/20/22	
p,m-Xylene	ND	0.0500		1	06/15/22	06/20/22	
Total Xylenes	ND	0.0250		1	06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		96.7 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/15/22	06/20/22	
Surrogate: Bromofluorobenzene		96.7 %	70-130		06/15/22	06/20/22	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		06/15/22	06/20/22	
Surrogate: Toluene-d8		102 %	70-130		06/15/22	06/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0		1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/17/22	06/20/22	
Surrogate: n-Nonane		108 %	50-200		06/17/22	06/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: KL		Batch: 2225047
-	42.7	20.0		1	06/15/22	06/17/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2022 3:45:36PM

CONF51-1'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY	ď		Batch: 2225049
Benzene	ND	0.0250	1		06/15/22	06/21/22	
Ethylbenzene	ND	0.0250	1		06/15/22	06/21/22	
Toluene	ND	0.0250	1		06/15/22	06/21/22	
o-Xylene	ND	0.0250	1		06/15/22	06/21/22	
p,m-Xylene	ND	0.0500	1		06/15/22	06/21/22	
Total Xylenes	ND	0.0250	1		06/15/22	06/21/22	
Surrogate: Bromofluorobenzene		94.7 %	70-130		06/15/22	06/21/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		06/15/22	06/21/22	
Surrogate: Toluene-d8		101 %	70-130		06/15/22	06/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IX	Y		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/15/22	06/21/22	
Surrogate: Bromofluorobenzene		94.7 %	70-130		06/15/22	06/21/22	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		06/15/22	06/21/22	
Surrogate: Toluene-d8		101 %	70-130		06/15/22	06/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JI			Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1		06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1		06/17/22	06/20/22	
Surrogate: n-Nonane		114 %	50-200		06/17/22	06/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: K	L		Batch: 2225047



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2022 3:45:36PM

CONF52Wall-.5'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2225049
Benzene	ND	0.0250	1		06/15/22	06/21/22	
Ethylbenzene	ND	0.0250	1		06/15/22	06/21/22	
Toluene	ND	0.0250	1		06/15/22	06/21/22	
o-Xylene	ND	0.0250	1		06/15/22	06/21/22	
p,m-Xylene	ND	0.0500	1		06/15/22	06/21/22	
Total Xylenes	ND	0.0250	1		06/15/22	06/21/22	
Surrogate: Bromofluorobenzene		96.7 %	70-130		06/15/22	06/21/22	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		06/15/22	06/21/22	
Surrogate: Toluene-d8		103 %	70-130		06/15/22	06/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/15/22	06/21/22	
Surrogate: Bromofluorobenzene		96.7 %	70-130		06/15/22	06/21/22	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130		06/15/22	06/21/22	
Surrogate: Toluene-d8		103 %	70-130		06/15/22	06/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: J	īL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1		06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1		06/17/22	06/20/22	
Surrogate: n-Nonane		108 %	50-200		06/17/22	06/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: I	KL		Batch: 2225047
11110119 10 7 121111 0 0 0 1 0 1 7 0 0 0 1 1							



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2022 3:45:36PM

CONF53Wall-05'

		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2225049
Benzene	ND	0.0250	1	06/15/22	06/21/22	
Ethylbenzene	ND	0.0250	1	06/15/22	06/21/22	
Toluene	ND	0.0250	1	06/15/22	06/21/22	
o-Xylene	ND	0.0250	1	06/15/22	06/21/22	
p,m-Xylene	ND	0.0500	1	06/15/22	06/21/22	
Total Xylenes	ND	0.0250	1	06/15/22	06/21/22	
Surrogate: Bromofluorobenzene		96.1 %	70-130	06/15/22	06/21/22	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	06/15/22	06/21/22	
Surrogate: Toluene-d8		101 %	70-130	06/15/22	06/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: IY		Batch: 2225049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/15/22	06/21/22	
Surrogate: Bromofluorobenzene		96.1 %	70-130	06/15/22	06/21/22	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	06/15/22	06/21/22	
Surrogate: Toluene-d8		101 %	70-130	06/15/22	06/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2225085
Diesel Range Organics (C10-C28)	ND	25.0	1	06/17/22	06/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/17/22	06/20/22	
Surrogate: n-Nonane		107 %	50-200	06/17/22	06/20/22	
	/1		٨	Analyst: KL		Batch: 2225047
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Л	maryst. KL		Batch. 2223047



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/2022 3:45:36PM

Result	Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			6/2	2/2022 3:45:36PM	
Result Limit Level Result Rec Limits RPD Limit Limit ng/kg		Ve	olatile Organ	ic Compo	unds by EI	PA 82601	В		Analyst: IY		
Prepared: 06/15/22 Analyzed: 06/2022	Analyte	Result		-		Rec		RPD			
Serverie ND		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Selly benzene ND	Blank (2225049-BLK1)							Prepared: 00	5/15/22 Anal	yzed: 06/20/22	
ND	Benzene		0.0250								
ND 0.0250 ND 0.0500	Ethylbenzene		0.0250								
ND 0.0500 ND 0.0250	Toluene		0.0250								
ND	o-Xylene		0.0250								
Surrogate: Bromofluorobenzene 0.491 0.500 98.1 70-130	p,m-Xylene										
Control Cont	Total Xylenes	ND	0.0250								
CLCS (2225049-BS1) Prepared: 06/15/22 Analyzed: 06/20/22	Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130				
Prepared: 06/15/22 Analyzed: 06/20/22	Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130				
Benzene 2.42 0.0250 2.50 96.7 70-130 Ethylbenzene 2.41 0.0250 2.50 96.5 70-130 Foluene 2.38 0.0250 2.50 95.4 70-130 Foluene 2.47 0.0250 2.50 98.7 70-130 Foluene 2.47 0.0250 2.50 98.7 70-130 Foluene 2.47 0.0250 2.50 98.7 70-130 Foluene 2.47 0.0250 2.50 98.7 70-130 Foluene 2.48 0.0500 5.00 97.2 70-130 Foluene 2.49 0.500 7.50 97.7 70-130 Foluence 3.50 99.7 70-130 Foluence 48 0.503 0.500 102 70-130 Foluence 48 0.503 0.500 102 70-130 Foluence 50.500 98.8 70-130 Foluence 60.508 0.500 101 70-130 Foluence 60.508 0.500 101 70-130 Foluence 70.500 98.8 70-130 Foluence 70.500 98.8 70-130 Foluence 70.500 99.8 70-130 0.852 23 Foluence 70.500 99.8 70-130 0.852 23 Foluence 70.500 99.8 70-130 0.852 23 Foluence 70.500 99.8 70-130 0.852 23 Foluence 70.500 99.8 70-130 0.249 27 Foluence 70.500 99.8 70-130 0.485 27 Foluence 70.500 99.2 70-130 0.485 27 Foluence 70.500 99.2 70-130 0.485 27 Foluence 70.500 99.2 70-130 0.485 27 Foluence 70.500 99.8 70-130 0.0819 27 Foluence 70.500 99.8 70-130 0.0819 27 Foluence 70.500 99.8 70-130 0.0819 27 Foluence 70.500 99.8 70-130 0.0819 27 Foluence 70.500 99.8 70-130 0.0819 27 Foluence 70.500 99.8 70-130 0.0819 27 Foluence 70.500 99.8 70-130 0.0819 27 Foluence 70.500 99.8 70-130 0.0819 27 Foluence 70.500 99.8 70-130 0.0819 27	Surrogate: Toluene-d8	0.484		0.500		96.7	70-130				
Ethylbenzene 2.41	LCS (2225049-BS1)							Prepared: 06	5/15/22 Anal	yzed: 06/20/22	
Toluene 2.38 0.0250 2.50 95.4 70-130 5-Xylene 2.47 0.0250 2.50 98.7 70-130 5-Xylene 2.47 0.0250 5.00 97.2 70-130 5-Xylene 3.486 0.0500 5.00 97.2 70-130 5-Xylene 7.33 0.0250 7.50 97.7 70-130 5-Xyrogate: Bromofluorobenzene 7.33 0.0250 7.50 97.7 70-130 5-Xyrogate: I.2-Dichloroethane-d4 0.494 0.500 98.8 70-130 5-Xyrogate: I.2-Dichloroethane-d8 0.503 0.503 0.500 101 70-130 5-Xyrogate: Toluene-d8 0.503 0.500 101 70-130 5-Xyrogate: Toluene-d8 0.503 0.500 101 70-130 5-Xyrogate: I.2-Dichloroethane-d8 0.500 0.500 101 70-130 5-Xyrogate: I.2-Dichloroethane-d8 0.500 0.500 0.500 101 70-130 5-Xyrogate: I.2-Dichloroethane-d8 0.500 0.500 0.500 0.852 23 5-Xylene 0.500 0.500 0.500 0.500 0.500 0.500 0.737 0.440 0.737 0.730 0.730 0.737 0.730 0.737 0.730 0.737 0.730 0.730 0.737 0.730 0.737 0.730 0.737 0.730 0.730 0.737 0.730 0.730 0.737 0.730 0.730 0.730 0.737 0.730	Benzene	2.42	0.0250	2.50		96.7	70-130				
2.47 0.0250 2.50 98.7 70-130 p.m-Xylene 4.86 0.0500 5.00 97.2 70-130 p.m-Xylene 7.33 0.0250 7.50 97.7 70-130 p.m-Xylene 0.508 7.50 97.7 70-130 p.m-Xylene 1.2-Dichloroethane-d4 0.494 0.500 98.8 70-130 p.m-Xylene 1.2-Dichloroethane-d4 0.503 0.503 0.500 101 70-130 p.m-Xylene 1.2-Dichloroethane-d8 0.503 0.503 0.500 101 70-130 p.m-Xylene 1.2-Dichloroethane-d8 0.503 0.500 101 70-130 p.m-Xylene 1.2-Dichloroethane-d8 0.503 0.500 101 70-130 p.m-Xylene 1.2-Dichloroethane-d8 0.503 0.500 101 70-130 p.m-Xylene 1.2-Dichloroethane-d8 0.0250 0.500 95.8 70-130 0.852 0.3 p.m-Xylene 1.2-Mark 1.2-Dichloroethane-d8 0.0250 0.500 96.3 70-130 0.249 0.27 p.m-Xylene 1.2-Mark 1.2-Dichloroethane-d8 0.0250 0.500 99.2 70-130 0.485 0.7 p.m-Xylene 1.2-Mark 1.2-Dichloroethane-d8 0.0500 5.00 97.0 70-130 0.124 0.7 p.m-Xylene 1.2-Mark 1.2-Dichloroethane-d8 0.510 0.500 102 70-130 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 102 70-130 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 102 70-130 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 102 70-130 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 0.500 0.500 0.500 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 0.500 0.500 0.500 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 0.500 0.500 0.500 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 0.500 0.500 0.500 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 0.500 0.500 0.500 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 0.500 0.500 0.500 0.0819 0.7 p.m-Xylene 0.510 0.500 0.500 0.500 0.500 0.500 0.0819 0.7 p.m-Xylene 0.510 0.500 0.5	Ethylbenzene	2.41	0.0250	2.50		96.5	70-130				
Autorogate: Bromofluorobenzene Autorogate: Bromofluorobenzene Autorogate: Bromofluorobenzene Autorogate: Bromofluorobenzene Autorogate: Bromofluorobenzene Autorogate: Bromofluorobenzene Autorogate: Bromofluorobenzene Autorogate: Bromofluorobenzene Autorogate: Indiana	Toluene	2.38	0.0250	2.50		95.4	70-130				
Total Xylenes 7.33 0.0250 7.50 97.7 70-130	o-Xylene	2.47	0.0250	2.50		98.7	70-130				
Surrogate: Bromofluorobenzene 0.508 0.500 102 70-130	o,m-Xylene		0.0500	5.00		97.2	70-130				
Comparison of the International of International October 1988	Total Xylenes	7.33	0.0250	7.50		97.7	70-130				
Comparison of the Internation of Internation of the Internation of t	Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130				
Prepared: 06/15/22 Analyzed: 06/20/22	Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130				
Benzene 2.40 0.0250 2.50 95.8 70-130 0.852 23 Ethylbenzene 2.41 0.0250 2.50 96.3 70-130 0.249 27 Toluene 2.37 0.0250 2.50 94.7 70-130 0.737 24 5-Xylene 2.48 0.0250 2.50 99.2 70-130 0.485 27 5-m-Xylene 4.85 0.0500 5.00 97.0 70-130 0.124 27 Total Xylenes 7.33 0.0250 7.50 97.8 70-130 0.0819 27 Surrogate: Bromofluorobenzene 0.510 0.500 102 70-130	Surrogate: Toluene-d8	0.503		0.500		101	70-130				
Ethylbenzene 2.41 0.0250 2.50 96.3 70-130 0.249 27 Foluene 2.37 0.0250 2.50 94.7 70-130 0.737 24 5-Xylene 2.48 0.0250 2.50 99.2 70-130 0.485 27 5.mr-Xylene 4.85 0.0500 5.00 97.0 70-130 0.124 27 Fotal Xylenes 7.33 0.0250 7.50 97.8 70-130 0.0819 27 Surrogate: Bromofluorobenzene 0.510 0.500 102 70-130 70-130 70-130	LCS Dup (2225049-BSD1)							Prepared: 00	5/15/22 Anal	yzed: 06/20/22	
Ethylbenzene 2.41 0.0250 2.50 96.3 70-130 0.249 27 Toluene 2.37 0.0250 2.50 94.7 70-130 0.737 24 5-Xylene 2.48 0.0250 2.50 99.2 70-130 0.485 27 5-m-Xylene 4.85 0.0500 5.00 97.0 70-130 0.124 27 Total Xylenes 7.33 0.0250 7.50 97.8 70-130 0.0819 27 Surrogate: Bromofluorobenzene 0.510 0.500 102 70-130 0.70-130 0.819 27	Benzene	2.40	0.0250	2.50		95.8	70-130	0.852	23		
Toluene 2.37 0.0250 2.50 94.7 70-130 0.737 24 5-Xylene 2.48 0.0250 2.50 99.2 70-130 0.485 27 5-May Sylene 4.85 0.0500 5.00 97.0 70-130 0.124 27 Total Xylenes 7.33 0.0250 7.50 97.8 70-130 0.0819 27 Surrogate: Bromofluorobenzene 0.510 0.500 102 70-130	Ethylbenzene	2.41		2.50		96.3	70-130	0.249	27		
D.mXylene 4.85 0.0500 5.00 97.0 70-130 0.124 27 Fotal Xylenes 7.33 0.0250 7.50 97.8 70-130 0.0819 27 Surrogate: Bromofluorobenzene 0.510 0.500 102 70-130	•	2.37	0.0250	2.50		94.7	70-130	0.737	24		
Total Xylenes 7.33 0.0250 7.50 97.8 70-130 0.0819 27 Surrogate: Bromofluorobenzene 0.510 0.500 102 70-130 70-130	o-Xylene	2.48	0.0250	2.50		99.2	70-130	0.485	27		
Total Xylenes 7.33 0.0250 7.50 97.8 70-130 0.0819 27 Surrogate: Bromofluorobenzene 0.510 0.500 102 70-130 70-130	o,m-Xylene	4.85	0.0500	5.00		97.0	70-130	0.124	27		
0.000		7.33	0.0250	7.50		97.8	70-130	0.0819	27		
Surrogate: 1,2-Dichloroethane-d4 0.499 0.500 99.8 70-130	Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130				
	Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.8	70-130				

0.500

70-130



Surrogate: Toluene-d8

0.495

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo6/22/20223:45:36PM

Nonhalogenated	Organics by	v EPA 8015D	- GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2225049-BLK1)						Prepared: 0	6/15/22 <i>A</i>	Analyzed: 06/20/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.491		0.500	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500	100	70-130			
Surrogate: Toluene-d8	0.484		0.500	96.7	70-130			
LCS (2225049-BS2)						Prepared: 0	6/15/22 A	Analyzed: 06/19/22
Gasoline Range Organics (C6-C10)	39.5	20.0	50.0	79.0	70-130			
Surrogate: Bromofluorobenzene	0.405		0.500	81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500	99.0	70-130			
Surrogate: Toluene-d8	0.384		0.500	76.8	70-130			
LCS Dup (2225049-BSD2)						Prepared: 0	6/15/22 A	Analyzed: 06/19/22
Gasoline Range Organics (C6-C10)	37.7	20.0	50.0	75.4	70-130	4.71	20	
Surrogate: Bromofluorobenzene	0.491		0.500	98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500	98.3	70-130			
Surrogate: Toluene-d8	0.569		0.500	114	70-130			



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill 21022-0001	Reported:
1224 Standpipe Rd Carlsbad NM, 88220	Project Number: Project Manager:	Ashley Giovengo	6/22/2022 3:45:36PM

Carlsbad NM, 88220		Project Manager	r: As	hley Gioveng	go				6/22/2022 3:45:36PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2225085-BLK1)							Prepared: 0	6/17/22 Ar	nalyzed: 06/20/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.4		50.0		109	50-200			
LCS (2225085-BS1)							Prepared: 0	6/17/22 Ar	nalyzed: 06/20/22
Diesel Range Organics (C10-C28)	490	25.0	500		98.0	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			
Matrix Spike (2225085-MS1)				Source:	E206085-	04	Prepared: 0	6/17/22 Ar	nalyzed: 06/20/22
Diesel Range Organics (C10-C28)	520	25.0	500	ND	104	38-132			
Surrogate: n-Nonane	54.2		50.0		108	50-200			
Matrix Spike Dup (2225085-MSD1)				Source:	E206085-	04	Prepared: 0	6/17/22 Ar	nalyzed: 06/20/22
Diesel Range Organics (C10-C28)	543	25.0	500	ND	109	38-132	4.41	20	
Surrogate: n-Nonane	54.9		50.0		110	50-200			



Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		Red Hills Facili 21022-0001	ty Pad 5 05	5.07.22 S _l	oill		Reported:
Carlsbad NM, 88220		Project Manager:	A	Ashley Gioveng	go				6/22/2022 3:45:36PM
		Anions	by EPA	300.0/9056	\				Analyst: KL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2225047-BLK1)							Prepared: 0	6/15/22 A	nalyzed: 06/17/22
Chloride	ND	20.0							
LCS (2225047-BS1)							Prepared: 0	6/15/22 A	nalyzed: 06/17/22
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2225047-MS1)				Source:	E206085-0	01	Prepared: 0	6/15/22 A	nalyzed: 06/17/22
Chloride	270	20.0	250	56.2	85.4	80-120			
Matrix Spike Dup (2225047-MSD1)				Source:	E206085-0	01	Prepared: 0	6/15/22 A	nalyzed: 06/17/22
Chloride	269	20.0	250	56.2	85.1	80-120	0.308	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/22/22 15:45

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Ir	nformation	i			C	hain of Custody	/					P C): 2	5	60	96		Page	of
Project:	aiser Fran Red Hills F Janager:	acility P	ad 5_05.0	07.22 Spill	Attention: Wescom Inc Address: 1224 Standpipe Rd			W0#			Job I	Numb		1D	2D	TA [*]	T Standard x		Program
Address: City, Stat	1224 Sta e, Zip: Ca	ndpipe R rlsbad, N	d)	City, State, Zip: Carlsbad, NM 8 Phone: 505-382-1211								Method						RCRA
	505-382-1 shley.giov ue by:		escomin	c.com_	Email: ashley.giovengo@wesc	ominc.com	(O by 8015	GRO/DRO by 8015	8021	8260	5010	300.0		ΣN	ΧT		NM C	State O UT AZ	Z TX
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by	GRO/DR	BTEX by 8023	VOC by 8260	Metals 6010	Chloride 300.0		верос	верос			Remark	s
13:25	6/10/22	Soil	1 Jar		CONF44 - 2.5'	Ų								x					
11:23	6/10/22	Soil	1 Jar		CONF45 - 1'	2						- [х					
11:27	6/10/22	Soil	1 Jar		CONF46 - 1'	3								х					
12:42	6/10/22	Soil	1 Jar		CONF47 - 1'	4								х					
12:46	6/10/22	Soil	1 Jar		CONF48 - 1'	5								х					
12:51	6/10/22	Soil	1 Jar		CONF49 - 1'	6								х					
14:25	6/10/22	Soil	1 Jar		CONF50 - 1.5'	7								х					
13:31	6/10/22	Soil	1 Jar	-	CONF51 - 1'	8								х					
13:59	6/10/22	Soil	1 Jar		CONF52Wall5'	9							T T	х					
14:04	6/10/22	Soil	1 Jar		CONF53Wall5'	10								х					
Addition	al Instruct	ions: k	Cept on ic	ce, Please CC: c	ole.burton@wescominc.com, shar.l	narvester@wes	com	inc.co	om, a	ashle	y.gio	vengo	@wesc	omir	ic.co	m			
				ticity of this sample.	l am aware that tampering with or intentionally megal action. Sampled by:	islabelling the sample	locati	on,			11-11-11-11						ived on ice the d °C on subsequent	THE PARTY OF	led or received
unau	ed by: (Signa	RRE			Received by: (Signature)	Date 6-13			1:1	Off		eived o	n ice:		b Us N	e Only	У		
MIN	ed by (signa ed by: (Signa		Date	132 Time	Received by: (Signature)	Date Date	22	Time	3:0	20	<u>T1</u>			<u>T2</u>			<u>T3</u>		
Sample Mar	rive S - Soil Ed	- Solid So	Sludge A A	Aqueous, O - Other _		Container	Type	a. a - a	lace			Temp		7	· c · i	VO^			
					unless other arrangements are made. Haza												port for the a	nalysis of the	above

envirotech Inc.

Printed: 6/15/2022 2:01:36PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	06/14/22	13:00	,	Work Order ID:	E206085
Phone:	(505) 382-1211	Date Logged In:	06/14/22	13:01]	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	06/20/22	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mate	ch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: <u>U</u>	<u>JPS</u>		
4. Was th	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		Yes			Comment	s/Resolution
Sample T	Turn Around Time (TAT)						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample (<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes				
	visible ice, record the temperature. Actual sample	temperature: 4°C	<u> </u>				
_	<u>Container</u>						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain	ers collected?	Yes				
Field Lal							
	field sample labels filled out with the minimum information ample ID?	rmation:	Yes				
	Pate/Time Collected?			Į			
	ollectors name?		Yes No				
	Preservation		110				
	the COC or field labels indicate the samples were pro-	eserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved m	etals?	No				
Multinha	ase Sample Matrix						
	the sample have more than one phase, i.e., multiphas	e?	No				
	, does the COC specify which phase(s) is to be analy		NA				
		204.	INA				
	act Laboratory						
	amples required to get sent to a subcontract laborator		No				
29. Was a	subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	o: NA		
Client I	<u>nstruction</u>						
							1

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22

Spill

Work Order: E206145

Job Number: 21022-0001

Received: 6/20/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/27/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/27/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill

Workorder: E206145

Date Received: 6/20/2022 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/20/2022 8:15:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 05.07.22 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

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labadmin@envirotech-inc.com

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Southern New Mexico Area Lynn Jarboe

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Office: 505-421-LABS(5227)

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ljarboe@envirotech-inc.com

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West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

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Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	Reporteu:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/27/22 15:49

Client Sample ID	Lab Sample ID Ma	trix Sampled	Received	Container
	<u> </u>	<u> </u>		
CONF54 - 1.5'	E206145-01A So	oil 06/14/22	06/20/22	Glass Jar, 4 oz.
CONF55 - 1.5'	E206145-02A So	oil 06/14/22	06/20/22	Glass Jar, 4 oz.
CONF56 - 1.5'	E206145-03A So	oil 06/14/22	06/20/22	Glass Jar, 4 oz.
CONF57 - 1.5'	E206145-04A So	oil 06/14/22	06/20/22	Glass Jar, 4 oz.
CONF58 - 2'	E206145-05A So	oil 06/16/22	06/20/22	Glass Jar, 4 oz.
CONF59 - 1.5'	E206145-06A So	oil 06/16/22	06/20/22	Glass Jar, 4 oz.
CONF60 - 2'	E206145-07A So	oil 06/16/22	06/20/22	Glass Jar, 4 oz.
CONF61 - 1.5'	E206145-08A So	oil 06/16/22	06/20/22	Glass Jar, 4 oz.
CONF62 - 2'	E206145-09A So	oil 06/17/22	06/20/22	Glass Jar, 4 oz.
CONF63 Wall5'	E206145-10A So	oil 06/17/22	06/20/22	Glass Jar, 4 oz.
CONF64 Wall5'	E206145-11A So	oil 06/17/22	06/20/22	Glass Jar, 4 oz.



Kaiser	Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 S	tandpipe Rd	Project Number:	21022-0001	Reported:
Carlsb	ad NM, 88220	Project Manager:	Ashley Giovengo	6/27/2022 3:49:49PM

CONF54 - 1.5' E206145-01

		E200143-01					
Analyte	Result	Reporting Limit	Dib	ution	Prepared	Analyzed	Notes
Marye	Result	Liiiit			•	Amaryzea	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2226049
Benzene	ND	0.0250		1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250		1	06/21/22	06/23/22	
Toluene	ND	0.0250		1	06/21/22	06/23/22	
o-Xylene	ND	0.0250		1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500		1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		99.7 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		102 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		99.7 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		102 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: Љ		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0		1	06/23/22	06/23/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/23/22	06/23/22	
Surrogate: n-Nonane		119 %	50-200		06/23/22	06/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: KL		Batch: 2226032
Chloride	51.5	20.0		1	06/21/22	06/25/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF55 - 1.5'

		2200110 02					
	D. Iv	Reporting	D.I		D 1		N
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	Y		Batch: 2226049
Benzene	ND	0.0250	1	l	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	l	06/21/22	06/23/22	
Toluene	ND	0.0250	1	l	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	l	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	l	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	l	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		100 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		103 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: l	Y		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		100 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		103 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	īL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	1	06/23/22	06/23/22	
Oil Range Organics (C28-C36)	ND	50.0	1	l	06/23/22	06/23/22	
Surrogate: n-Nonane		115 %	50-200		06/23/22	06/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	KL		Batch: 2226032



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF56 - 1.5'

_		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2226049
Benzene	ND	0.0250	1	1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	1	06/21/22	06/23/22	
Toluene	ND	0.0250	1	1	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		98.3 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		102 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		98.3 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		102 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	1	06/23/22	06/23/22	
Oil Range Organics (C28-C36)	ND	50.0	1	1	06/23/22	06/23/22	
Surrogate: n-Nonane		121 %	50-200		06/23/22	06/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2226032



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF57 - 1.5'

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2226049
Benzene	ND	0.0250		1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250		1	06/21/22	06/23/22	
Toluene	ND	0.0250		1	06/21/22	06/23/22	
o-Xylene	ND	0.0250		1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500		1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	Ī	1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		97.6 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		102 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		97.6 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		102 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0		1	06/23/22	06/23/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/23/22	06/23/22	
Surrogate: n-Nonane		134 %	50-200		06/23/22	06/23/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2226032
	280	20.0			06/21/22	06/25/22	· · · · · · · · · · · · · · · · · · ·



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF58 - 2'

		E206145-05					
		Reporting					
Analyte	Result	Limit	Dilı	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2226049
Benzene	ND	0.0250		1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250		1	06/21/22	06/23/22	
Toluene	ND	0.0250		1	06/21/22	06/23/22	
o-Xylene	ND	0.0250		1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500		1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		97.2 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		100 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		97.2 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		100 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0		1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/23/22	06/24/22	
Surrogate: n-Nonane		154 %	50-200		06/23/22	06/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2226032
Chloride	ND	20.0		1	06/21/22	06/25/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF59 - 1.5'

Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
			Analyst:			Batch: 2226049
				06/21/22	06/23/22	
		1	1	06/21/22	06/23/22	
ND	0.0250	1	1	06/21/22	06/23/22	
ND	0.0250	1	1	06/21/22	06/23/22	
ND	0.0500	1	1	06/21/22	06/23/22	
ND	0.0250	1	1	06/21/22	06/23/22	
	99.4 %	70-130		06/21/22	06/23/22	
	98.3 %	70-130		06/21/22	06/23/22	
	102 %	70-130		06/21/22	06/23/22	
mg/kg	mg/kg		Analyst:	IY		Batch: 2226049
ND	20.0	1	1	06/21/22	06/23/22	
	99.4 %	70-130		06/21/22	06/23/22	
	98.3 %	70-130		06/21/22	06/23/22	
	102 %	70-130		06/21/22	06/23/22	
mg/kg	mg/kg		Analyst:	ЛL		Batch: 2226074
ND	25.0	1	1	06/23/22	06/24/22	
ND	50.0	1	1	06/23/22	06/24/22	
	139 %	50-200		06/23/22	06/24/22	
mg/kg	mg/kg		Analyst:	KL		Batch: 2226032
	ND ND ND mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 99.4 % 98.3 % 102 % mg/kg ND 20.0 99.4 % 98.3 % 102 % mg/kg mg/kg mg/kg ND 25.0 ND 50.0	Result Limit Dile mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 PM 70-130 98.3 % 70-130 102 % 70-130 mg/kg mg/kg ND 20.0 99.4 % 70-130 98.3 % 70-130 102 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 99.4 % 70-130 98.3 % 70-130 mg/kg mg/kg Analyst: ND 20.0 1 99.4 % 70-130 1 99.4 % 70-130 1 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 06/21/22 ND 0.0250 1 06/21/22 ND 0.0250 1 06/21/22 ND 0.0250 1 06/21/22 ND 0.0500 1 06/21/22 ND 0.0250 1 06/21/22 99.4 % 70-130 06/21/22 98.3 % 70-130 06/21/22 102 % 70-130 06/21/22 mg/kg mg/kg Analyst: IY ND 20.0 1 06/21/22 99.4 % 70-130 06/21/22 98.3 % 70-130 06/21/22 102 % 70-130 06/21/22 102 % 70-130 06/21/22 102 % 70-130 06/21/22 ND 25.0 1 06/23/22 ND 50.0 1 06/23/22	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 06/21/22 06/23/22 ND 0.0500 1 06/21/22 06/23/22 ND 0.0250 1 06/21/22 06/23/22 ND 0.0250 1 06/21/22 06/23/22 99.4 % 70-130 06/21/22 06/23/22 98.3 % 70-130 06/21/22 06/23/22 mg/kg mg/kg Analyst: IY ND 20.0 1 06/21/22 06/23/22 99.4 % 70-130 06/21/22 06/23/22 98.3 % 70-130 06/21/22 06/23/22 102 % 70-130 06/21/22 06/23/22 102 % 70-1



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF60 - 2'

		E206145-07					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	g/kg mg/kg Analyst: IY				Batch: 2226049	
Benzene	ND	0.0250		1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250		1	06/21/22	06/23/22	
Toluene	ND	0.0250		1	06/21/22	06/23/22	
o-Xylene	ND	0.0250		1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500		1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		96.0 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		101 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		96.0 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		95.8 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		101 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	_	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/23/22	06/24/22	
Surrogate: n-Nonane		132 %	50-200		06/23/22	06/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2226032
Chloride	249	20.0		1	06/21/22	06/25/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF61 - 1.5'

		Reporting		·	·		
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg mg/kg Analyst: IY			Batch: 2226049		
Benzene	ND	0.0250	1		06/21/22	06/23/22	
Ethylbenzene	ND	0.0250	1	Į.	06/21/22	06/23/22	
Toluene	ND	0.0250	1	l.	06/21/22	06/23/22	
o-Xylene	ND	0.0250	1	Į.	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500	1	Į.	06/21/22	06/23/22	
Total Xylenes	ND	0.0250	1	[06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		96.9 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		101 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į.	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		96.9 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		101 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1		06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	l	06/23/22	06/24/22	
Surrogate: n-Nonane		129 %	50-200		06/23/22	06/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KI			Batch: 2226032
Chloride	48.3	20.0	1		06/21/22	06/25/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF62 - 2'

		E206145-09					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2226049
Benzene	ND	0.0250		1	06/21/22	06/23/22	
Ethylbenzene	ND	0.0250		1	06/21/22	06/23/22	
Toluene	ND	0.0250		1	06/21/22	06/23/22	
o-Xylene	ND	0.0250		1	06/21/22	06/23/22	
p,m-Xylene	ND	0.0500		1	06/21/22	06/23/22	
Total Xylenes	ND	0.0250		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		96.6 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		100 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/21/22	06/23/22	
Surrogate: Bromofluorobenzene		96.6 %	70-130		06/21/22	06/23/22	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130		06/21/22	06/23/22	
Surrogate: Toluene-d8		100 %	70-130		06/21/22	06/23/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0		1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0		1	06/23/22	06/24/22	
Surrogate: n-Nonane		128 %	50-200		06/23/22	06/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	KL		Batch: 2226032
Chloride	467	20.0		1	06/21/22	06/25/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF63 Wall - .5' E206145-10

		120011010				
Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
				nalyst: IY	7 11101 / 200	Batch: 2226049
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg			0.6/0.4/0.0	Batch: 2220049
Benzene	ND	0.0250	1	06/21/22	06/24/22	
Ethylbenzene	ND	0.0250	1	06/21/22	06/24/22	
Toluene	ND	0.0250	1	06/21/22	06/24/22	
o-Xylene	ND	0.0250	1	06/21/22	06/24/22	
p,m-Xylene	ND	0.0500	1	06/21/22	06/24/22	
Total Xylenes	ND	0.0250	1	06/21/22	06/24/22	
Surrogate: Bromofluorobenzene		98.7 %	70-130	06/21/22	06/24/22	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	06/21/22	06/24/22	
Surrogate: Toluene-d8		102 %	70-130	06/21/22	06/24/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/21/22	06/24/22	
Surrogate: Bromofluorobenzene		98.7 %	70-130	06/21/22	06/24/22	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	06/21/22	06/24/22	
Surrogate: Toluene-d8		102 %	70-130	06/21/22	06/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1	06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/23/22	06/24/22	
Surrogate: n-Nonane		82.5 %	50-200	06/23/22	06/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: KL		Batch: 2226032
Chloride	ND	20.0	1	06/21/22	06/25/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

CONF64 Wall - .5'

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: I	Y		Batch: 2226049
Benzene	ND	0.0250	1		06/21/22	06/24/22	
Ethylbenzene	ND	0.0250	1		06/21/22	06/24/22	
Toluene	ND	0.0250	1		06/21/22	06/24/22	
o-Xylene	ND	0.0250	1		06/21/22	06/24/22	
p,m-Xylene	ND	0.0500	1		06/21/22	06/24/22	
Total Xylenes	ND	0.0250	1		06/21/22	06/24/22	
Surrogate: Bromofluorobenzene		97.0 %	70-130		06/21/22	06/24/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		06/21/22	06/24/22	
Surrogate: Toluene-d8		100 %	70-130		06/21/22	06/24/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2226049
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/21/22	06/24/22	
Surrogate: Bromofluorobenzene		97.0 %	70-130		06/21/22	06/24/22	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		06/21/22	06/24/22	
Surrogate: Toluene-d8		100 %	70-130		06/21/22	06/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: J	L		Batch: 2226074
Diesel Range Organics (C10-C28)	ND	25.0	1		06/23/22	06/24/22	
Oil Range Organics (C28-C36)	ND	50.0	1		06/23/22	06/24/22	
Surrogate: n-Nonane		179 %	50-200		06/23/22	06/24/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: I	KL		Batch: 2226032



QC Summary Data

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/2022 3:49:49PM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			6/2	7/2022 3:49:49PM
	Vo	olatile Organ		Analyst: IY					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2226049-BLK1)							Prepared: 00	6/21/22 Anal	yzed: 06/23/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
LCS (2226049-BS1)							Prepared: 0	6/21/22 Anal	yzed: 06/23/22
Benzene	2.23	0.0250	2.50		89.3	70-130			
Ethylbenzene	2.19	0.0250	2.50		87.4	70-130			
Toluene	2.10	0.0250	2.50		83.9	70-130			
o-Xylene	2.08	0.0250	2.50		83.3	70-130			
o,m-Xylene	4.15	0.0500	5.00		83.0	70-130			
Total Xylenes	6.23	0.0250	7.50		83.1	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			
LCS Dup (2226049-BSD1)							Prepared: 0	6/21/22 Anal	yzed: 06/23/22
Benzene	2.22	0.0250	2.50		89.0	70-130	0.404	23	
Ethylbenzene	2.24	0.0250	2.50		89.5	70-130	2.31	27	
Foluene	2.17	0.0250	2.50		86.6	70-130	3.17	24	
o-Xylene	2.11	0.0250	2.50		84.4	70-130	1.38	27	
o,m-Xylene	4.23	0.0500	5.00		84.6	70-130	1.91	27	
Total Xylenes	6.34	0.0250	7.50		84.5	70-130	1.73	27	
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			

0.500

102

70-130



Surrogate: Toluene-d8

0.510

QC Summary Data

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 SpillReported:1224 Standpipe RdProject Number:21022-0001Carlsbad NM, 88220Project Manager:Ashley Giovengo6/27/20223:49:49PM

Nonhalogenated	Organics b	v EPA	8015D -	GRO

Analy	ret.	Г

Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2226049-BLK1)						Prepared: 06	/21/22 Analyz	zed: 06/23/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.491		0.500	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500	98.7	70-130			
Surrogate: Toluene-d8	0.511		0.500	102	70-130			
LCS (2226049-BS2)						Prepared: 06	5/21/22 Analyz	zed: 06/23/22
Gasoline Range Organics (C6-C10)	58.5	20.0	50.0	117	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500	98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500	98.9	70-130			
Surrogate: Toluene-d8	0.508		0.500	102	70-130			
LCS Dup (2226049-BSD2)						Prepared: 06	5/21/22 Analyz	zed: 06/23/22
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0	114	70-130	2.24	20	
Surrogate: Bromofluorobenzene	0.500		0.500	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500	97.2	70-130			
Surrogate: Toluene-d8	0.518		0.500	104	70-130			



QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/27/2022 3:49:49PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			1	6/27/2022 3:49:49PN
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: JL									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2226074-BLK1)							Prepared: 0	6/23/22 Ar	nalyzed: 06/23/22
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	63.4		50.0		127	50-200			
LCS (2226074-BS1)							Prepared: 0	6/23/22 Ar	nalyzed: 06/27/22
Diesel Range Organics (C10-C28)	543	25.0	500		109	38-132			
urrogate: n-Nonane	53.2		50.0		106	50-200			
Matrix Spike (2226074-MS1)				Source:	E206145-	03	Prepared: 0	6/23/22 Ar	nalyzed: 06/23/22
Diesel Range Organics (C10-C28)	608	25.0	500	ND	122	38-132			
urrogate: n-Nonane	68.2		50.0		136	50-200			
Matrix Spike Dup (2226074-MSD1)				Source:	E206145-	03	Prepared: 0	6/23/22 Ar	nalyzed: 06/23/22
Diesel Range Organics (C10-C28)	504	25.0	500	ND	101	38-132	18.7	20	
urrogate: n-Nonane	55.4		50.0		111	50-200			



Matrix Spike Dup (2226032-MSD1)

Chloride

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd Carlsbad NM, 88220		Project Name: Project Number: Project Manager	: :	Red Hills Facili 21022-0001 Ashley Gioveng	•	5.07.22 S _j	pill	Reported: 6/27/2022 3:49:49PM		
		Anions	by EPA	300.0/9056	4				Analyst: KL	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2226032-BLK1)							Prepared: 0	6/21/22 A	nalyzed: 06/27/22	
Chloride	ND	20.0								
LCS (2226032-BS1)							Prepared: 0	6/21/22 A	nalyzed: 06/27/22	
Chloride	260	20.0	250		104	90-110				
Matrix Spike (2226032-MS1)				Source:	E206145-	01	Prepared: 0	6/21/22 A	nalyzed: 06/25/22	
Chloride	326	20.0	250	51.5	110	80-120				

250

20.0

Source: E206145-01

104

80-120

4.73

51.5

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 06/21/22 Analyzed: 06/25/22

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Definitions and Notes

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/27/22 15:49

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



ent: Kaiser Francis Oil Co			- 10	Bill To				La	b Us	e Onl	У				TAT EPA Pro			ogram		
roject:	Red Hills I	acility Pa	d 5 05.0	7.22 Spill		Wescom Inc		Lab	WO#		_	Job N	umb	per .	1D	2D	3D	Standard	CWA	SDWA
	lanager:					224 Standpipe Rd		Eá	06	14	7	210	22.	-000	127			X		
-	1224 Sta					Zip: Carlsbad, NM 8	8220						is an	d Metho	b					RCRA
	e, Zip: Ca		M 88220		Phone: 505	-382-1211					1									
	05-382-1				Email: ashle	ey.giovengo@wesco	minc.com	8015	8015										State	
mail: a	shley.giov	engo@w	escomino	c.com_)y 8(by 80	21	00	0	0.0		Σ×			NM CO	UT AZ	TX
eport d	ue by:							RO	RO	y 80	826	601	e 30			¥		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by	GRO/DRO	BTEX by 802.	VOC by 8260	Metals 6010	Chloride 300.0		верос	BGDOC			Remarks		
11:11	6/14/22	Soil	1 Jar		CONF54 - 1.5'										х					
1.1:15	6/14/22	Soil	1 Jar		CONF55 -	1.5'	2						ij		х					
12:04	6/14/22	Soil	1 Jar		CONF56 -	1.5'	3								х					
12:10	6/14/22	Soil	1 Jar		CONF57 -	1.5'	4								х					
11:18	6/16/22	Soil	1 Jar		CONF58 - 2'										х					
10:11	6/16/22	Soil	1 Jar		CONF59 - 1.5'										х					
10:18	6/16/22	Soil	1 Jar		CONF60	- 2'	7								х					
	6/16/22	Soil	1 Jar	6 - 1.17	CONF61 - 2 - 2'	1.5'	\$ V								х					
11:17	6/17/22		1000000	CONFE	2 - 2	-	18 0			_					1.0					
10:40	6/11/22	Soil	Har	CONF6	3 mall	5'	09 9				H,				х					
	6/17/22		1 Jar	CONF	sywall -	5' 11	10 10								х					
						cominc.com, shar.h	6/20	122	CI	om, a	shle	y.gio	eng	o@wes	comir	nc.co	m			
date or time	of collection	is considered		icity of this sample. I may be grounds for le		ing with or intentionally mis Sampled by:	slabelling the sample	locati	on,			The second second						ved on ice the day C on subsequent da		ed or received
pues	ed by: Signa		Date 6/	17/22 [3]	27 Regeived	by: (Signature)	6-17	3	" "	00	1	Rece	ived	on ice:	Y	ab U	se Onl			
Relinquish	ed by: (Signa	Mes	Date	(7-02 4	15 Received	le Gignature	Date (0/20)	22	Time 8	:15	5	<u>T1</u>			T2			<u></u>		
Relinquish	by: (Signa	ture) /	Date	Time	Received	by: (Signature)	Date		Time			AVG	Tem	p°C_	4					
Sample Mat	rix: S - Soil, Sc	- Solid, Sg -	Sludge, A - A	queous, O - Other			Containe	г Туре	: g - g	lass,						ss, v -	VOA			
					inless other arrange	ments are made. Hazar												port for the ana	lysis of the	above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Printed: 6/20/2022 12:13:27PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

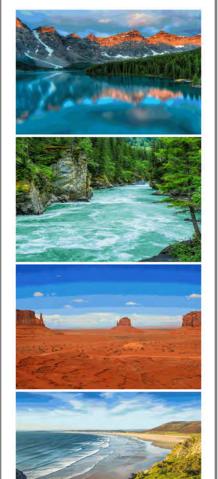
Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	06/20/22	08:15		Work Order ID:	E206145
Phone: Email:	(505) 382-1211 ashley.giovengo@wescominc.com	Date Logged In: Due Date:	06/20/22 (17:00 (4 day TAT)		Logged In By:	Caitlin Christian
Lillall.	asincy.grovengo@wescomme.com	Due Date.	00/24/22	17.00 (4 day 171)			
Chain o	f Custody (COC)						
1. Does 1	the sample ID match the COC?		Yes				
2. Does 1	the number of samples per sampling site location ma	atch the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: <u>U</u>	PS		
4. Was th	ne COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss	•	Yes			Comment	s/Resolution
Sample '	<u>Turn Around Time (TAT)</u>						
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling	re received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sampl	e temperature: 4°0	<u>C</u>				
	<u>Container</u>						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers		Yes				
19. Is the	appropriate volume/weight or number of sample conta	iners collected?	Yes				
Field La							
	e field sample labels filled out with the minimum inf	formation:	37				
	Sample ID? Date/Time Collected?		Yes	L			
	Collectors name?		Yes Yes				
	Preservation		103				
	the COC or field labels indicate the samples were p	reserved?	No				
22. Are s	sample(s) correctly preserved?		NA				
	o filteration required and/or requested for dissolved	metals?	No				
Multiph	ase Sample Matrix						
	the sample have more than one phase, i.e., multiple	ase?	No				
	s, does the COC specify which phase(s) is to be anal		NA				
	ract Laboratory	•					
	samples required to get sent to a subcontract laborate	amr9	No				
	a subcontract laboratory specified by the client and	-	NA	Subcontract Lab	. NT A		
		ii so wiio:	INA	Subcontract Lab	; NA		
Client I	<u>nstruction</u>						

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Kaiser Francis Oil Company

Project Name: Red Hills Facility Pad 5 05.07.22

Spill

Work Order: E206178

Job Number: 21022-0001

Received: 6/24/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/30/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 6/30/22

Ashley Giovengo 1224 Standpipe Rd Carlsbad, NM 88220

Project Name: Red Hills Facility Pad 5 05.07.22 Spill

Workorder: E206178

Date Received: 6/24/2022 8:38:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/24/2022 8:38:00AM, under the Project Name: Red Hills Facility Pad 5 05.07.22 Spill.

The analytical test results summarized in this report with the Project Name: Red Hills Facility Pad 5 05.07.22 Spill apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Cell: 775-287-1762

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Sample Summary

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	Reporteu:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/30/22 16:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF65-1.5'	E206178-01A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF66-1'	E206178-02A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF67-2'	E206178-03A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF68-1.5'	E206178-04A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF69-1.5'	E206178-05A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF70-1.5'	E206178-06A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF71-1.5'	E206178-07A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF72-2'	E206178-08A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF73-2'	E206178-09A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF74-2'	E206178-10A	Soil	06/22/22	06/24/22	Glass Jar, 4 oz.
CONF75-2'	E206178-11A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF76-1.5'	E206178-12A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF77Wall5'	E206178-13A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF78Wall5'	E206178-14A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.
CONF79Wall5'	E206178-15A	Soil	06/21/22	06/24/22	Glass Jar, 4 oz.



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF65-1.5'

		E206178-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
Surrogate: n-Nonane		129 %	50-200	06/27/22	06/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2226107
Chloride	130	20.0	1	06/24/22	06/28/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF66-1'

		E206178-02				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
Surrogate: n-Nonane		101 %	50-200	06/27/22	06/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2226107
Chloride	166	20.0	1	06/24/22	06/28/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF67-2'

		E206178-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.7 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
Surrogate: n-Nonane		110 %	50-200	06/27/22	06/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2226107
Chloride	33.3	20.0	1	06/24/22	06/28/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/30/2022 4:20:19PM

CONF68-1.5'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
Surrogate: n-Nonane		110 %	50-200	06/27/22	06/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2226107
Chloride	251	20.0	1	06/24/22	06/28/22	

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF69-1.5'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
Surrogate: n-Nonane		101 %	50-200	06/27/22	06/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2226107
Chloride	114	20.0	1	06/24/22	06/28/22	



Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/30/2022 4:20:19PM

CONF70-1.5'

Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/28/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/28/22	
Surrogate: n-Nonane		104 %	50-200	06/27/22	06/28/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2226107
Chloride	160	20.0	1	06/24/22	06/28/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF71-1.5'

	D				
Result		Dilution	Prepared	Analyzed	Notes
			1	Zinaryzed	Batch: 2227005
		7 1110	-	0.6/20/20	Batch. 2227003
		1			
ND	0.0250	1	06/27/22	06/28/22	
ND	0.0250	1	06/27/22	06/28/22	
ND	0.0250	1	06/27/22	06/28/22	
ND	0.0500	1	06/27/22	06/28/22	
ND	0.0250	1	06/27/22	06/28/22	
	97.5 %	70-130	06/27/22	06/28/22	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2227005
ND	20.0	1	06/27/22	06/28/22	
	89.4 %	70-130	06/27/22	06/28/22	
mg/kg	mg/kg	Ana	llyst: JL		Batch: 2227009
ND	25.0	1	06/27/22	06/28/22	
ND	50.0	1	06/27/22	06/28/22	
		50.200	06/27/22	06/28/22	
	115 %	50-200	00/2//22	00/20/22	
mg/kg	115 % mg/kg		lyst: RAS	00/20/22	Batch: 2226107
·	ND ND ND mg/kg ND	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MD 20.0 89.4 % mg/kg MD 25.0	Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 97.5 % 70-130 mg/kg mg/kg Ana ND 20.0 1 89.4 % 70-130 mg/kg mg/kg Ana ND 25.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IV ND 0.0250 1 06/27/22 ND 0.0250 1 06/27/22 ND 0.0250 1 06/27/22 ND 0.0250 1 06/27/22 ND 0.0500 1 06/27/22 ND 0.0250 1 06/27/22 mg/kg mg/kg Analyst: IV ND 20.0 1 06/27/22 mg/kg mg/kg Analyst: JL ND 25.0 1 06/27/22	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 06/27/22 06/28/22 ND 0.0250 1 06/27/22 06/28/22 ND 0.0250 1 06/27/22 06/28/22 ND 0.0500 1 06/27/22 06/28/22 ND 0.0250 1 06/27/22 06/28/22 ND 0.0250 1 06/27/22 06/28/22 mg/kg mg/kg Analyst: IY ND 20.0 1 06/27/22 06/28/22 mg/kg mg/kg Analyst: JL 06/27/22 06/28/22 mg/kg mg/kg Analyst: JL 06/27/22 06/28/22



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF72-2'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
o,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.7 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
Surrogate: n-Nonane		108 %	50-200	06/27/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2226107
	112			06/24/22	06/28/22	



Oil Range Organics (C28-C36)

Anions by EPA 300.0/9056A

Surrogate: n-Nonane

Chloride

Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF73-2' E206178-09

Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2227005 mg/kg mg/kg Volatile Organics by EPA 8021B 06/27/22 06/28/22 ND 0.0250 Benzene 06/27/22 1 06/28/22 Ethylbenzene ND 0.0250ND 0.025006/27/22 06/28/22 Toluene 1 06/27/22 06/28/22 o-Xylene ND 0.02501 06/27/22 06/28/22 ND 0.0500 p,m-Xylene 06/28/22 06/27/22 1 Total Xylenes ND 0.025006/27/22 06/28/22 96.3 % 70-130 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: IY Batch: 2227005 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 06/28/22 ND 20.0 1 06/27/22 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 89.5 % 06/27/22 06/28/22 70-130 mg/kg mg/kg Analyst: JL Batch: 2227009 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 06/27/22 06/29/22 Diesel Range Organics (C10-C28) ND 06/27/22 06/29/22

50.0

mg/kg

20.0

108 %

mg/kg

247

1

1

Analyst: RAS

50-200

06/27/22

06/24/22

06/29/22

06/28/22

Batch: 2226107

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/30/2022 4:20:19PM

CONF74-2'

Reporting						
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.2 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
Surrogate: n-Nonane		132 %	50-200	06/27/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2226107
Chloride	80.8	20.0	1	06/24/22	06/28/22	

Chloride

Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF75-2'

E206178-11							
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005	
Benzene	ND	0.0250	1	06/27/22	06/28/22		
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22		
Toluene	ND	0.0250	1	06/27/22	06/28/22		
o-Xylene	ND	0.0250	1	06/27/22	06/28/22		
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22		
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22		
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	06/27/22	06/28/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2227005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	06/27/22	06/28/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2227009	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22		
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22		
Surrogate: n-Nonane		111 %	50-200	06/27/22	06/29/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2226107	

20.0

06/24/22

06/28/22

76.5



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF76-1.5'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
Surrogate: n-Nonane		109 %	50-200	06/27/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2226107
	90.4	20.0	1	06/24/22	06/28/22	



Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF77Wall-.5'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2227005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.7 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
Surrogate: n-Nonane		117 %	50-200	06/27/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2226107
Chloride	227	20.0	-	06/24/22	06/28/22	



Sample Data

Kaiser Francis Oil CompanyProject Name:Red Hills Facility Pad 5 05.07.22 Spill1224 Standpipe RdProject Number:21022-0001Reported:Carlsbad NM, 88220Project Manager:Ashley Giovengo6/30/202 4:20:19PM

CONF78Wall-.5'

E206178-14

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
o,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
Surrogate: n-Nonane		120 %	50-200	06/27/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2226107



Sample Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

CONF79Wall-.5'

E206178-15

		D 4				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dilution	rrepared	Anaryzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2227005
Benzene	ND	0.0250	1	06/27/22	06/28/22	
Ethylbenzene	ND	0.0250	1	06/27/22	06/28/22	
Toluene	ND	0.0250	1	06/27/22	06/28/22	
o-Xylene	ND	0.0250	1	06/27/22	06/28/22	
p,m-Xylene	ND	0.0500	1	06/27/22	06/28/22	
Total Xylenes	ND	0.0250	1	06/27/22	06/28/22	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2227005
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/22	06/28/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	70-130	06/27/22	06/28/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2227009
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/22	06/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/22	06/29/22	
Surrogate: n-Nonane		102 %	50-200	06/27/22	06/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2226107
Chloride	293	20.0	1	06/24/22	06/28/22	•



OC Summary Data

		Ψ 0 0.		ary Dat	••						
Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Project Number:		Red Hills Facil 21022-0001	ity Pad 5 0	5.07.22 Sp	oill		Reported:		
Carlsbad NM, 88220	Project Manager:			Ashley Gioven	go	6/30/2022 4:20:19PM					
Volatile Organics by EPA 8021B											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2227005-BLK1)							Prepared: 0	6/27/22 A	analyzed: 06/27/22		
Benzene	ND	0.0250									
Ethylbenzene	ND	0.0250									
Toluene	ND	0.0250									
o-Xylene	ND	0.0250									
p,m-Xylene	ND	0.0500									
Total Xylenes	ND	0.0250									
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130					
LCS (2227005-BS1)							Prepared: 0	6/27/22 A	analyzed: 06/27/22		
Benzene	4.47	0.0250	5.00		89.3	70-130					
Ethylbenzene	4.10	0.0250	5.00		82.1	70-130					
Toluene	4.34	0.0250	5.00		86.8	70-130					
o-Xylene	4.31	0.0250	5.00		86.1	70-130					
p,m-Xylene	8.48	0.0500	10.0		84.8	70-130					
Total Xylenes	12.8	0.0250	15.0		85.3	70-130					
Surrogate: 4-Bromochlorobenzene-PID	7.52		8.00		94.0	70-130					
Matrix Spike (2227005-MS1)				Source:	E206178-	01	Prepared: 0	6/27/22 A	analyzed: 06/28/22		
Benzene	4.82	0.0250	5.00	ND	96.3	54-133					
Ethylbenzene	4.42	0.0250	5.00	ND	88.4	61-133					
Toluene	4.68	0.0250	5.00	ND	93.5	61-130					
o-Xylene	4.60	0.0250	5.00	ND	92.1	63-131					
p,m-Xylene	9.12	0.0500	10.0	ND	91.2	63-131					
Total Xylenes	13.7	0.0250	15.0	ND	91.5	63-131					
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.3	70-130					
Matrix Spike Dup (2227005-MSD1)				Source:	E206178-	01	Prepared: 0	6/27/22 A	analyzed: 06/28/22		
Benzene	5.01	0.0250	5.00	ND	100	54-133	3.95	20			
Ethylbenzene	4.62	0.0250	5.00	ND	92.4	61-133	4.41	20			
Toluene	4.88	0.0250	5.00	ND	97.5	61-130	4.19	20			
o-Xylene	4.81	0.0250	5.00	ND	96.2	63-131	4.40	20			
4	9.53	0.0500	10.0	ND	95.3	63-131	4 27	20			
p,m-Xylene	14.3	0.0300	15.0	ND	95.5 95.6	63-131	4.37 4.38	20			



Surrogate: 4-Bromochlorobenzene-PID

7.70

70-130

QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd	Project Name: Project Number:	Red Hills Facility Pad 5 05.07.22 Spill 21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

Carlsbad NM, 88220		Project Manage	r: As	shley Gioveng	go			6	/30/2022 4:20:19PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2227005-BLK1)							Prepared: 0	6/27/22 Ana	alyzed: 06/27/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			
LCS (2227005-BS2)							Prepared: 0	6/27/22 Ana	alyzed: 06/27/22
Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130			
Matrix Spike (2227005-MS2)				Source:	E206178-	01	Prepared: 0	6/27/22 Ana	alyzed: 06/28/22
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.3	70-130			
Matrix Spike Dup (2227005-MSD2)				Source:	E206178-	01	Prepared: 0	6/27/22 Ana	alyzed: 06/28/22
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.3	70-130	6.76	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130			

QC Summary Data

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	Reported:
1224 Standpipe Rd	Project Number:	21022-0001	_
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/30/2022 4:20:19PM

Carlsbad NM, 88220		Project Manage	r: As	hley Gioveng	go			(5/30/2022 4:20:19PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	ORO/			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2227009-BLK1)							Prepared: 0	6/27/22 An	alyzed: 06/28/22
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.1		50.0		106	50-200			
LCS (2227009-BS1)							Prepared: 0	6/27/22 An	alyzed: 06/28/22
Diesel Range Organics (C10-C28)	557	25.0	500		111	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			
Matrix Spike (2227009-MS1)				Source:	E206178-)9	Prepared: 0	6/27/22 An	alyzed: 06/28/22
Diesel Range Organics (C10-C28)	507	25.0	500	ND	101	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			
Matrix Spike Dup (2227009-MSD1)				Source:	E206178-	09	Prepared: 0	6/27/22 An	alyzed: 06/28/22
Diesel Range Organics (C10-C28)	497	25.0	500	ND	99.4	38-132	2.03	20	
Surrogate: n-Nonane	41.4		50.0		82.8	50-200			



QC Summary Data

Kaiser Francis Oil Company 1224 Standpipe Rd		Project Name: Red Hills Facility Pad 5 05.07.22 Spill Project Number: 21022-0001							Reported:			
Carlsbad NM, 88220	Project Manager: Ashley Giovengo								6/30/2022 4:20:19PM			
		Anions	by EPA	300.0/9056	4				Analyst: RAS			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2226107-BLK1)							Prepared: 0	6/24/22 A	analyzed: 06/28/22			
Chloride	ND	20.0										
LCS (2226107-BS1)							Prepared: 0	6/24/22 A	analyzed: 06/28/22			
Chloride	245	20.0	250		97.9	90-110						
Matrix Spike (2226107-MS1)				Source:	E206178-	01	Prepared: 0	6/24/22 A	analyzed: 06/28/22			
Chloride	355	20.0	250	130	90.1	80-120						
Matrix Spike Dup (2226107-MSD1)				Source:	E206178-	01	Prepared: 0	6/24/22 A	analyzed: 06/28/22			
Chloride	362	20.0	250	130	92.8	80-120	1.89	20				

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Kaiser Francis Oil Company	Project Name:	Red Hills Facility Pad 5 05.07.22 Spill	
1224 Standpipe Rd	Project Number:	21022-0001	Reported:
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/30/22 16:20

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



roject Informa	tion			C	hain of Custody	1										F	age _ [of
Client: Kaiser F Project: Red Hi	lls Facili	ty Pad 5 05.	07.22 Spill	Bill To Attention: Wescom Inc Address: 1224 Standpipe Rd	Attention: Wescom Inc						lly Number	1D	2D	TAT 3D	Standa	rd	EPA F	Program
ddress: 1224 Standpipe Rd City, State, Zip: Carls			City, State, Zip: Carlsbad, NM 88220				.0	Analy	d			X			RCRA			
Phone: 505-38 Email: ashley.g Report due by:	2-1211			Email: ashley.giovengo@wesco	ominc.com	(O by 8015	GRO/DRO by 8015	8021	8260	5010	300.0	MN	ΧT		NM ×	СО	State UT AZ	TX
Time Date Sampled Sample	Mat	rix No. of Containers	Sample ID		Lab Number	DRO/ORO by	GRO/DF	BTEX by 8	VOC by 8260	Metals 6010	Chloride	BGDOC	BGDOC				Remark	5
11:06 6/21/	22 So	oil 1 Jar		CONF65 - 1.5'	1							х	1					
11:10 6/21/	22 So	oil 1 Jar		CONF66 - 1'	2							х						
14:07 6/21/	22 So	oil 1 Jar		CONF67 - 2'	3							х						
11:22 6/21/	22 Sc	oil 1 Jar		CONF68- 1.5'	4	ΑĪ						х						
11:25 6/21/	22 Sc	oil 1 Jar		CONF69 - 1.5'	5							х						
9:57 6/22/	²² Sc	oil 1 Jar		CONF70 - 1.5'	6							х						
10:00 6/22/	22 Sc	oil 1 Jar		CONF71 - 1.5'	٦							х						
11:44 6/22/	'22 Sc	oil 1 Jar	1	CONF72 - 2'	8							х						
12:06 6/22/	'22 Sc	oil 1 Jar		CONF73 - 2'	9							х						
12:16 6/22/	^{'22} Sc	oil 1 Jar		CONF74 - 2'	10							х						
Additional Inst	ructions	: Kept on i	ce, Please CC: co	ole.burton@wescominc.com, shar.h	narvester@wes	com	nc.co	om, a	shle	y.gic	vengo@wes	omi	nc.co	m				
			ticity of this sample. I			locatio	on,			1000	es requiring thermal I in ice at an avg tem						3	oled or receive
Relinquished by: (S	Signature)	Dat Dat	123/22 11		7 Pate 33	24	Time)! (0	Rec	eived on ice:	CY	ab U	se Only I				
Que	un (Mari	350 Li.	159	6/23/2	250		:19		<u>T1</u>		<u>T2</u>						
Relinguished by: (S	oignature)	Dat	14/roce 8:	Received by: (Signatule)	(0)24	22	8	: 3	8	AVG	i Temp °C	+						
Sample Matrix: S - So				unless other arrangements are made. Haza							lastic, ag - amb							



lient: Kaiser Francis Oil Co Bill To						Bill To Lab Use								_	TA	т 1	Page 2	
				07 22 Spill	Attention: Wescom Inc		Lab	WO#				Number	1D	20	3D	Standard	CWA	rogram SDW/
	roject: Red Hills Facility Pad 5 05.07.22 Spill Attention: Wescom Inc Address: 1224 Standpipe Rd					F	WO#	017	8	210	223-00	1	20	30	X	CWA	3000	
	ddress: 1224 Standpipe Rd City, State, Zip: Carlsbad, NM 8822		3220	-		r l			sis and Meth		1			T-	RCRA			
	e, Zip: Ca)	Phone: 505-382-1211													
hone: 505-382-1211 Email: ashley.giovengo@wescom		minc.com	115	15									State					
		engo@w	@wescominc.com			3y 8C	у 80	21	00	0	300.0	Σ	1		NM CO	UT AZ	TX	
eport d	ue by:					P. C. V.	ORO I	JRO F	ıy 8021	y 8260	6010	de 30		×		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by	VOC by	Metals	Chloride	BGDOC	BGDOC			Remarks	
12:26	6/21/22	Soil	1 Jar		CONF75 - 2'	11							х					
10:16	6/21/22	Soil	1 Jar		CONF76 - 1.5'	12							x					
7:50	6/21/22	Soil	1 Jar		CONF77Wall5'	13							x					
9:10	6/21/22	Soil	1 Jar		CONF78Wall5'	14							х					
10:26	6/21/22	Soil	1 Jar	1	CONF79Wall5'	15							х					
													x					
													х					
													х					
													х					
													х					
Addition	al Instruc	tions: K	Cept on i	ce, Please CC: co	ole.burton@wescominc.com, shar.h	arvester@we	com	inc.c	om, a	ashle	y.gic	ovengo@we	scomi	nc.cc	m			
				ticity of this sample. I	am aware that tampering with or intentionally mis	labelling the sample	e locati	on,								eived on ice the day t		ed or receiv
elinquish	ed by: Gigna	ture		/23/22 Time	Received by: (Signature)	Date 2	500	Time,	2:(-01	Rec	eived on ice		ab U	se On I	ly		
-	ed by: (Signa	/10/ 1	- Date	752 Time	Received by: (Signature)	- 6/c3/d	we	Time 16	:19	2	<u>T1</u>					<u>T3</u>		
elinguish	ed by: (Signa	iture)	Date		Received by: (Signature)	1 W24	22	Time 8	:2	8	AVG	G Temp °C	4					
		C-11-1 C-		Aqueous, O - Other	Ψ	Cantaina	Turne		-1		-1/-	lastic, ag - an	L. J. St.		MOA			

Printed: 6/28/2022 8:51:31AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Kaiser Francis Oil Company	Date Received:	06/24/22 (08:38	Work Order ID:	E206178
Phone:	(505) 382-1211	Date Logged In:	06/24/22	11:04	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	06/30/22	17:00 (4 day TAT)		
Chain a	Custody (COC)					
	f Custody (COC)		V			
	the sample ID match the COC? the number of samples per sampling site location ma	tch the COC	Yes			
	samples dropped off by client or carrier?	ten the coc	Yes Yes	Ci I Ci-		
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?		Yes	Carrier: <u>Isaac Garcia</u>			
	all samples received within holding time?	stea anaryses.	Yes			
Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.		100		Comments/Resolution		
	<u>Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field La	· · ·					
•	e field sample labels filled out with the minimum info	ormation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		No			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pr	reserved?	No			
	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved n	netals?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multipha		No			
27. If ye	s, does the COC specify which phase(s) is to be analy	yzed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborato	ry?	No			
	a subcontract laboratory specified by the client and it	•	NA	Subcontract Lab: NA		
Client l	nstruction					
<u>enene</u>	<u>nom uction</u>					

Date

ATTACHMENT F

Confirmation Sampling Variance Request

Ashley Giovengo

From:

Aaron Daniels <aarond@kfoc.net>

Sent: To: Friday, May 20, 2022 9:53 AM Hutton Andrew; Ashley Giovengo

Subject:

FW: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

FYI

From: Morgan, Crisha A <camorgan@blm.gov>

Sent: Friday, May 20, 2022 10:52 AM
To: Aaron Daniels <aarond@kfoc.net>

Subject: Re: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

All,

Please consider this BLM's approval for 400ft sampling. Please keep the BLM updated if anything slows down the work for delineation or remediation.

Thank you,

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned Well POC Lead

Bureau of Land Management | Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

Cell 575-200-8648 | Office 575-234-5987 |camorgan@blm.gov



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From: Aaron Daniels <aarond@kfoc.net>
Sent: Friday, May 20, 2022 9:48:34 AM
To: Morgan, Crisha A <camorgan@blm.gov>

Subject: FW: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

Following up on Red Hills Pad 5 as well.

Wanted to provide you with the information below from NMOCD.

Hope you are doing well.

Aaron

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Sent: Thursday, May 19, 2022 2:45 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Aaron Daniels <aarond@kfoc.net>; Harimon, Jocelyn,

EMNRD < Jocelyn. Harimon@state.nm.us>; Nobui, Jennifer, EMNRD < Jennifer. Nobui@state.nm.us>

Cc: Hutton Andrew < Huttona@kfoc.net>

Subject: RE: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

Aaron & Andrew,

Sorry for the mix-up. Your request for the sampling variance is approved for 400 ft2.

Thank you,

Mike Bratcher ● Incident Supervisor Environmental Bureau EMNRD - Oil Conservation Division 811S. First St. | Artesia, NM 88210 (575) 626-0857 | mike.bratcher@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Sent: Thursday, May 19, 2022 1:36 PM

To: Aaron Daniels <aarond@kfoc.net>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Nobui, Jennifer,

EMNRD < Jennifer. Nobui@state.nm.us>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Cc: Hutton Andrew < Huttona@kfoc.net>

Subject: RE: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

Aaron,

The variance request for closure samples not to exceed 500 ft2 is approved. The variance request will be placed in the incident file for future reference. Also, please make sure to include in closure report.

Regards,

Robert Hamlet ● Environmental Specialist - Advanced Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Aaron Daniels <aarond@kfoc.net> Sent: Wednesday, May 18, 2022 3:46 PM

To: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>; Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us>

Cc: Hutton Andrew < Huttona@kfoc.net>

Subject: [EXTERNAL] Sampling Variance - Red Hills Facility Pad 5 - NAPP2212769524

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

I wanted to reach out to request a variance associated with the 200 sq. ft. requirement for sampling. We would like to perform sampling at every 500 sq. ft. based on the following information:

- The size of the release footprint (~25,254.18 sq. ft)
- The homogeneity of the soil throughout the spill area 99.8% Pyote and Maljamar fine sands (See soil report attached)
- We will collect samples from the floor and side walls of the excavation to ensure impacted material is removed
- KFOC believes that sampling every 500 sq. ft will provide sufficient data confirming soil impacts have been adequately excavated

Thanks,

Aaron Daniels **EHS Manager** Kaiser-Francis Oil Company 918-491-4352

ATTACHMENT G

48-Hour Confirmation Sample Notification Email

Released to Imaging: 10/11/2022 4:10:48 PM

Received by OCD: 7/22/2022 10:01:38 AM

Ashley Giovengo

Ashley Giovengo From:

Sent: Monday, May 23, 2022 7:49 AM

Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Billings, To:

Bradford, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD

Aaron Daniels; Hutton Andrew; Cole Burton; Shar Harvester Cc:

Subject: Re: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 -

nAPP221276897

Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 05/27/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211 WescomInc.com | ashley.giovengo@WescomInc.com "I am in charge of my own safety."









Minnesota | North Dakota | New Mexico | Wisconsin

On Wed, May 11, 2022 at 3:25 PM Ashley Giovengo <ashley.giovengo@wescominc.com> wrote:

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 5 - nAPP221276897 starting on (5/13/22 thru 05/20/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Released to Imaging: 10/11/2022 4:10:48 PM

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211
WescomInc.com | ashley.giovengo@WescomInc.com
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Ashley Giovengo

Ashley Giovengo From:

Sent: Tuesday, May 31, 2022 10:33 AM

Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Billings, To:

Bradford, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD

Aaron Daniels; Hutton Andrew; Cole Burton; Shar Harvester Cc:

Re: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 -Subject:

nAPP221276897

Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/03/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com

"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

On Mon, May 23, 2022 at 7:48 AM Ashley Giovengo <ashley.giovengo@wescominc.com> wrote: Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 05/27/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211 <u>WescomInc.com</u> | ashley.giovengo@WescomInc.com "I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

On Wed, May 11, 2022 at 3:25 PM Ashley Giovengo <ashley.giovengo@wescominc.com> wrote:

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 5 - nAPP221276897 starting on (5/13/22 thru 05/20/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211 WescomInc.com | ashley.giovengo@WescomInc.com "I am in charge of my own safety."







Minnesota | North Dakota | New Mexico | Wisconsin

Ashley Giovengo

From: Ashley Giovengo

Sent: Monday, June 6, 2022 8:34 PM

To: Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Billings,

Bradford, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD

Cc: Aaron Daniels; Hutton Andrew; Cole Burton; Shar Harvester

Subject: Re: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 -

nAPP221276897

Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/17/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com
"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

On Tue, May 31, 2022 at 10:32 AM Ashley Giovengo ashley.giovengo@wescominc.com wrote: Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/03/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211
WescomInc.com | ashley.giovengo@WescomInc.com
"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

On Mon, May 23, 2022 at 7:48 AM Ashley Giovengo ashley.giovengo@wescominc.com wrote: Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 05/27/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com
"I am in charge of my own safety."



Minnesota | North Dakota | New Mexico | Wisconsin

On Wed, May 11, 2022 at 3:25 PM Ashley Giovengo <ashley.giovengo@wescominc.com> wrote:

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 5 – nAPP221276897 starting on (5/13/22 thru 05/20/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211 WescomInc.com | ashley.giovengo@WescomInc.com
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Ashley Giovengo

Ashley Giovengo From:

Sent: Monday, June 20, 2022 8:09 AM

Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD; Billings, To:

Bradford, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD

Aaron Daniels; Hutton Andrew; Cole Burton; Shar Harvester Cc:

Re: 48-Hour Confirmation Sampling Notification - Red Hills Facility Pad 5 -Subject:

nAPP221276897

Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/24/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211 WescomInc.com | ashley.giovengo@WescomInc.com "I am in charge of my own safety."



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On Mon, Jun 6, 2022 at 8:33 PM Ashley Giovengo <ashley.giovengo@wescominc.com> wrote: Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/17/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Released to Imaging: 10/11/2022 4:10:48 PM

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com
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On Tue, May 31, 2022 at 10:32 AM Ashley Giovengo ashley.giovengo@wescominc.com> wrote: Hello All,

Please extend the confirmation sampling period at the Red Hills Facility Pad 5 - nAPP221276897 release until 06/03/2022.

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211

WescomInc.com | ashley.giovengo@WescomInc.com
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On Mon, May 23, 2022 at 7:48 AM Ashley Giovengo ashley.giovengo@wescominc.com wrote: Hello All,

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Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211 | WescomInc.com | ashley.giovengo@WescomInc.com "I am in charge of my own safety."



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On Wed, May 11, 2022 at 3:25 PM Ashley Giovengo <ashley.giovengo@wescominc.com> wrote:

Hello All,

We intend to take confirmation samples at the Red Hills Facility Pad 5 - nAPP221276897 starting on (5/13/22 thru 05/20/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian O (218) 724-1322 | C (505) 382-1211
WescomInc.com | ashley.giovengo@WescomInc.com
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 128061

CONDITIONS

Operator:	OGRID:		
KAISER-FRANCIS OIL CO	12361		
PO Box 21468	Action Number:		
Tulsa, OK 74121146	128061		
	Action Type:		
	[C-141] Release Corrective Action (C-141)		

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/11/2022